

# HOLGUIN, FAHAN & ASSOCIATES, INC.

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ENVIRONMENTAL      MANAGEMENT      CONSULTANTS

May 18, 2005

Mr. John Awujo  
Los Angeles County Department of Public Works  
900 South Fremont Avenue, Annex Building, Third Floor  
Alhambra, California 91803-1331

Subject: **TRANSMITTAL OF SITE ASSESSMENT REPORT FOR  
EXXONMOBIL OIL CORPORATION SERVICE STATION #18-MJA  
1000 WEST VALLEY BOULEVARD, ALHAMBRA, CALIFORNIA  
(LACDPW FILE #9599-9425)**

Dear Mr. Awujo:

On behalf of ExxonMobil Oil Corporation (ExxonMobil), Holguin, Fahan & Associates, Inc. (HFA) transmits a copy of HFA's site assessment report for the above-referenced site.

Holguin, Fahan & Associates, Inc. trusts that this information meets your requirements. If you have any questions or require additional information, please contact Mr. James Anderson of HFA at (805) 585-6371, or [James\\_Anderson@hfa.com](mailto:James_Anderson@hfa.com)

Respectfully submitted,

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James Anderson, REA  
Associate Engineer  
Holguin, Fahan & Associates, Inc.

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Mark R. Fahan RG, REA  
Vice President  
Holguin, Fahan & Associates, Inc.

LBS:mrf:jda:kdh:dm:nd

cc: Mr. Greg Barton, ExxonMobil  
Mr. Frank Lee, property owner

**ENVIRONMENTAL: SCIENTISTS • GEOLOGISTS • ENGINEERS**  
Contaminated Site Assessment • Site Remediation • Mobile Remediation • CPT Service • Groundwater Monitoring

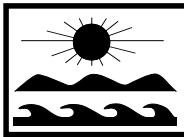
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# HOLGUIN, FAHAN & ASSOCIATES, INC.

ENVIRONMENTAL MANAGEMENT CONSULTANTS

## SITE ASSESSMENT REPORT

**EXXONMOBIL OIL CORPORATION  
SERVICE STATION #18-MJA  
1000 WEST VALLEY BOULEVARD  
ALHAMBRA, CALIFORNIA  
(LACDPW FILE #9599-9425)**

**MAY 18, 2005**

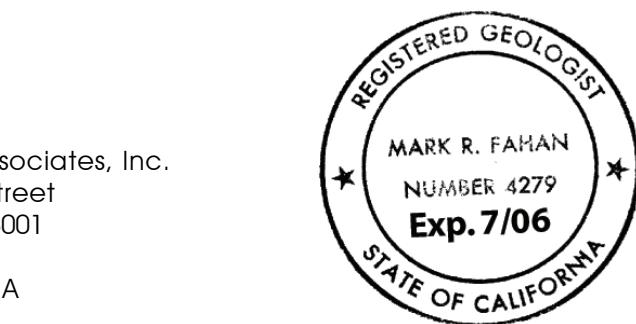
Client: ExxonMobil Oil Corporation  
3700 West 190th Street, TPT #2  
Torrance, California 90504

Contact: Mr. Greg Barton  
(310) 212-2826

Consultant: Holguin, Fahan & Associates, Inc.  
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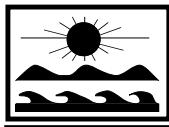
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## TABLE OF CONTENTS

	Page
List of Acronyms	
Introduction .....	1
Background.....	2
Site Description.....	2
Site Hydrogeology .....	2
Previous Work.....	2
Site Evaluation Methods and Results.....	4
Assessment Strategy .....	4
Pre-field Activities.....	4
Soil Characterization and Sampling Results.....	4
Waste Management.....	5
Summary and Conclusions.....	6
References .....	7

## FIGURES

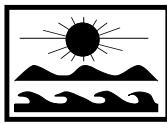
1	Site Location Map
2	Site Vicinity Map
3	Plot Plan
4	Plot Plan Showing 2001 Compliance Soil Sample Results
5	Adsorbed-Phase Hydrocarbon Concentrations for Soil Borings

## TABLES

1	Summary of Soil Sample Analytical Results
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## APPENDICES

1	Agency Notification Letter
2	Logs of Exploratory Borings
3	Soil Boring, Direct-Push Sampling, and Well Construction Procedures
4	Laboratory Report
5	Waste Manifest - PENDING

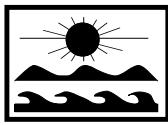


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#### **LIST OF ACRONYMS**

AB2886	California State Assembly Bill 2886
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CDWR	California Department of Water Resources
CRWQCB-LAR	California Regional Water Quality Control Board, Los Angeles Region (4)
D	indicated sample data were reported from a diluted analysis
DIPE	diisopropyl ether
DOT	Department of Transportation
EPA	Environmental Protection Agency
ETBE	ethyl tertiary butyl ether
fbg	feet below grade
ID	identification
J	value between the method detection limit and the reporting limit
LACDPW	Los Angeles County Department of Public Works
LUFT	leaking underground fuel tank
mg/kg	milligrams per kilogram
MSL	mean sea level
MTBE	methyl tertiary butyl ether
N/A	not applicable
ND	not detected at a concentration above the reporting limit
No.	number
REF	report reference
SB989	California State Senate Bill 989
SWRCB	State Water Resources Control Board
TAME	tertiary amyl methyl ether
TBA	tertiary butyl alcohol
TPH	total petroleum hydrocarbons
USGS	United States Geological Survey
UST	underground storage tank



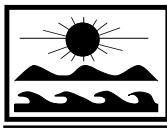
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## INTRODUCTION

Holguin, Fahan & Associates, Inc. (HFA) was contracted by ExxonMobil Oil Corporation (ExxonMobil) to perform a site assessment at ExxonMobil Service Station #18-MJA, located at 1000 West Valley Boulevard, Alhambra, California (see Figure 1 - Site Location Map). The assessment was performed to define the lateral extent of shallow adsorbed-phase hydrocarbons at the above-referenced site. The site assessment was conducted in accordance with HFA's work plan for site assessment activities dated January 17, 2005. Due to nonresponse from the agency, the LACDPW was notified in accordance with the 60-day policy in HFA's letter dated March 10, 2005 that the work plan would be implemented as written (see Appendix 1 for the notification letter) (SWRCB, 2004).

The responsible party contact is Mr. Greg Barton, ExxonMobil Oil Corporation, 3700 West 190th Street, TPT #2, Torrance, California 90504, (310) 212-2826. The environmental consultant contact is Mr. James Anderson, Holguin, Fahan & Associates, Inc., 143 South Figueroa Street, Ventura, California, 93001, (805) 585-6371. The lead agency contact is Mr. John Awujo, Los Angeles County Department of Public Works, 900 South Fremont Avenue, Annex Building, Third Floor, Alhambra, California 91803-1331, (626) 458-3512.



## BACKGROUND

### SITE DESCRIPTION

ExxonMobil Service Station #18-MJA is located at 1000 West Valley Boulevard, on the southeastern corner of the intersection of West Valley Boulevard and Atlantic Boulevard, in Alhambra, California (see Figure 1 and Figure 2 - Site Vicinity Map). The surrounding areas consist of light commercial and residential properties. The site is an active Mobil brand service station that includes one 12,000-gallon gasoline UST; two 10,000-gallon gasoline USTs; three dispenser islands; associated product and vent piping; and a service station building (see Figure 3 - Plot Plan).

### SITE HYDROGEOLOGY

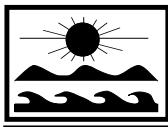
The site lies at an elevation of 400 feet above MSL, in an area of southwestward-sloping topography. The site is located in the San Gabriel Valley, two miles northeast of the Repetto Hills and eight miles south of the San Gabriel Mountains (USGS, 1991). Surface waters in the site vicinity drain as part of the San Gabriel River Watershed (CRWQCB-LAR, 1994). No surface bodies of water are located within 1 mile of the site (USGS, 1991).

Soil beneath the site consists of Recent alluvial deposits up to 2,000 feet thick underlain by the Tertiary Topanga and Puente formations (CDWR, 1966). Assessment activities indicate that the alluvium beneath the site consists of interbedded sand and silt, with some clay and gravel, from the surface to 100 fbg, the maximum depth investigated (see Appendix 2 for the logs of exploratory borings) (HFA, 2004).

The site is located at the western end of the Main San Gabriel Groundwater Basin (Main San Gabriel Basin Watermaster, 2002). Groundwater within the basin has existing beneficial use for municipal, industrial, and agricultural purposes (CRWQCB-LAR, 1994). No groundwater production wells were identified within one mile of the site. The nearest groundwater production wells (LACDPW Wells #2881A and #2880D) are located 1.5 miles northeast of the site. The depth to groundwater in the production wells ranged from 280 to 360 fbg on November 11, 2004 (see Figure 1 for the well locations) (LACDPW, 2005).

### PREVIOUS WORK

In June 1987, three underground storage tanks were removed from the site and replaced with the current three double-walled, fiberglass USTs in the same locations. A total of 735 cubic yards of hydrocarbon-containing soil was excavated from around the USTs and piping, and transported off-site for recycling. Laboratory analytical results of soil samples collected from immediately beneath the USTs indicated maximum concentrations of TPH as gasoline of

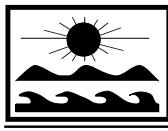


1,200 mg/kg. The soil samples were not analyzed for BTEX or MTBE (Alton Geoscience [Alton], 1991a).

Multiple phases of assessment were conducted from 1987 to 1991, which included the drilling of twelve soil borings near the USTs and former product piping. Laboratory analytical results of the soil samples indicated no detections of TPH as gasoline or benzene, except for TPH as gasoline of 290 mg/kg near the USTs at 15 fbg and 7.1 mg/kg near the product piping at 16 fbg. The soil samples collected from the borings near the USTs were not analyzed for benzene (Alton, 1987, 1991b and 1991c). In its letter dated July 31, 1991, the LACDPW issued a no-further-action directive for the site.

In August 2001, an SB989 fueling system upgrade was conducted at the site, which included the installation of double-walled product piping and new under-dispenser containment and liquid-tight sumps. Compliance soil samples were collected from beneath the dispensers and product piping from 4 fbg. Laboratory analytical results indicated maximum concentrations of TPH as gasoline of 5.7 mg/kg, benzene of 0.0084 mg/kg and MTBE of 35.0D mg/kg (see Figure 4 - Plot Plan Showing 2001 Compliance Soil Sample Results) (Frey Environmental, Inc., 2001).

Multiple phases of assessment were conducted from 2002 to 2004, which included the drilling of nine soil borings to a maximum of 100 fbg (borings B-1 through B-9). Laboratory analytical results of soil samples indicated maximum concentrations of TPH as gasoline of 12.1 mg/kg (soil boring B-1, 30 fbg) and MTBE of 8.55 mg/kg (soil boring B-1, 30 fbg). Benzene was not detected. Results of the assessment indicated that adsorbed-phase hydrocarbons were located in the vicinity of the USTs from 20 to 60 fbg, and had been defined vertically by 40 feet of non-hydrocarbon-containing soil (see Figure 5 - Adsorbed-Phase Hydrocarbon Concentrations for Soil Borings, and Table 1 - Summary of Soil Sample Analytical Results) (HFA, 2002 and 2004).



## SITE EVALUATION METHODS AND RESULTS

### ASSESSMENT STRATEGY

Due to the detection of adsorbed-phase hydrocarbons in shallow soil during previous assessment, six soil sampling locations were advanced to define the lateral extent of the residual adsorbed-phase hydrocarbons (see Figure 3 for the locations).

### PRE-FIELD ACTIVITIES

A geophysical survey was conducted to identify substructures in the vicinity of the proposed monitoring well locations. Underground Service Alert of Southern California was notified at least 48 hours prior to conducting the work.

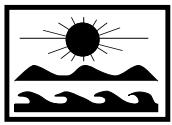
### SOIL CHARACTERIZATION AND SAMPLING RESULTS

On March 22, 23, and 24, 2005, HFA advanced six soil sampling locations (B-10 through B-15) using a direct-push rig. The sampling locations were advanced to 35 fbg, except for boring B-12, where refusal was encountered at 34 fbg (see Figure 3 for the boring locations, Appendix 2 for the logs of exploratory borings, and Appendix 3 for the procedures).

Soil samples were collected at 5-foot intervals for geologic logging to the total depth of the soil sampling locations. The subsurface soils encountered during this investigation consisted of interbedded sand and silt, with gravel from 0 to 35 fbg, the maximum depth investigated (see Appendix 2).

Soil samples were collected in accordance with EPA Method 5035 and submitted to a California State certified hazardous material testing laboratory, where they were analyzed for TPH as gasoline using EPA Method CA-LUFT and for BTEX, MTBE, TBA, TAME, DIPE, ETBE using EPA Method 8260B/8260. The analytical data will be electronically reported to the GeoTracker information system in accordance with AB2886 requirements.

Laboratory analytical results for soil samples collected from borings B-10 through B-15 indicated no detections of TPH as gasoline, BTEX, or MTBE. The lateral extent of adsorbed-phase hydrocarbons has been defined (see Figure 5, Table 1, and Appendix 4 for the laboratory reports).



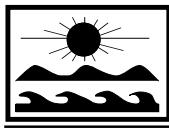
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Site Assessment Report  
ExxonMobil Service Station #18-MJA  
May 18, 2005 - Page 5

### **WASTE MANAGEMENT**

No soil was generated during this assessment. Decontamination water was temporarily stored on-site in a 55-gallon DOT-approved drum. The waste was transported off-site by Philip Services Corporation (PSC Industrial Outsourcing Group) for recycling at Crosby & Overton, Inc. (see Appendix 5 for the waste manifest - PENDING).



### **SUMMARY AND CONCLUSIONS**

Soil beneath the site consists of interbedded sand and silt with gravel and some clay, from 0 to 100 fbg, the maximum depth investigated. Groundwater has not been encountered during site activities and is expected to be greater than 250 fbg beneath the site.

A review of sensitive receptors indicates that no municipal or domestic production wells are located within 1 mile of the site. No surface bodies of water are located within 1 mile of the site.

Results of the current assessment indicate no detections of TPH, BTEX, or MTBE. Previous assessment activities have indicated that adsorbed-phase TPH as gasoline is localized to less than 10 fbg beneath the product piping and dispenser islands, with the exception of 12.1 mg/kg in boring B-1 at 30 fbg. MTBE is localized to less than 10 fbg beneath the product piping and dispenser islands and above 40 fbg in the vicinity of the USTs, with the exception of 0.012 mg/kg in boring B-6 at 60 fbg. Benzene has not been detected in soil samples collected from any of the borings. The vertical and lateral extent of adsorbed-phase hydrocarbons has been defined.



## REFERENCES

Alton Geoscience, 1987, Site Characterization Report For Mobil Station 11-MJA, Valley and Atlantic Boulevards, Alhambra, California, December 22, 1987.

Alton Geoscience, 1991a, Underground Storage Tank Closure, Mobil Station 11-MJA, Valley and Atlantic Boulevards, Alhambra, California, February 20, 1991a.

Alton Geoscience, 1991b, Additional Site Characterization and General Risk Appraisal, Mobil Station 11-MJA, Valley and Atlantic Boulevards, Alhambra, California, February 20, 1991.

Alton Geoscience, 1991c, Addendum to Additional Site Characterization and General Risk Appraisal and Underground Storage Tank Closure Reports for Mobil Station 11-MJA, Valley and Atlantic Boulevards, Alhambra, California, June 7, 1991.

California Department of Water Resources, 1966, Bulletin No. 104-2, Planned Utilization of Ground Water Basins, San Gabriel Valley, Appendix A: Geohydrology, March 1966.

California Regional Water Quality Control Board, Los Angeles Region (4), 1994, Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties, June 13, 1994.

Frey Environmental, Inc., 2001, Fuel Dispensing Complex Soil Sampling, Mobil Service Station #18-MJA, 1000 Valley Boulevard, Alhambra, California, September 28, 2001.

Holguin, Fahan & Associates, Inc., 2002, FAX 101 Report, ExxonMobil Oil Corporation Service Station #18-MJA, 1000 West Valley Boulevard, Alhambra, California, May 28, 2002.

Holguin, Fahan & Associates, Inc., 2004, FAX 101 Report, ExxonMobil Oil Corporation Service Station #18-MJA, 1000 West Valley Boulevard, Alhambra, California, June 29, 2004.

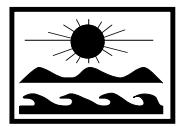
Los Angeles County Department of Public Works, 2005, Groundwater Data Information Request Transmittal, February 16, 2005.

Main San Gabriel Basin Watermaster, 2002, Main San Gabriel Basin Map, <http://www.watermaster.org/basinmap.html>, cited April 16, 2002.

State Water Resources Control Board, 2004, California Code of Regulations, Title 23, Division 3, Chapter 16, Underground Tank Regulations, Article 11, Section 2722(e), June 12, 2004.

United States Geological Survey, 1991, Los Angeles 7.5-Minute Series Quadrangle Map, Scale 1:24,000, 1991.

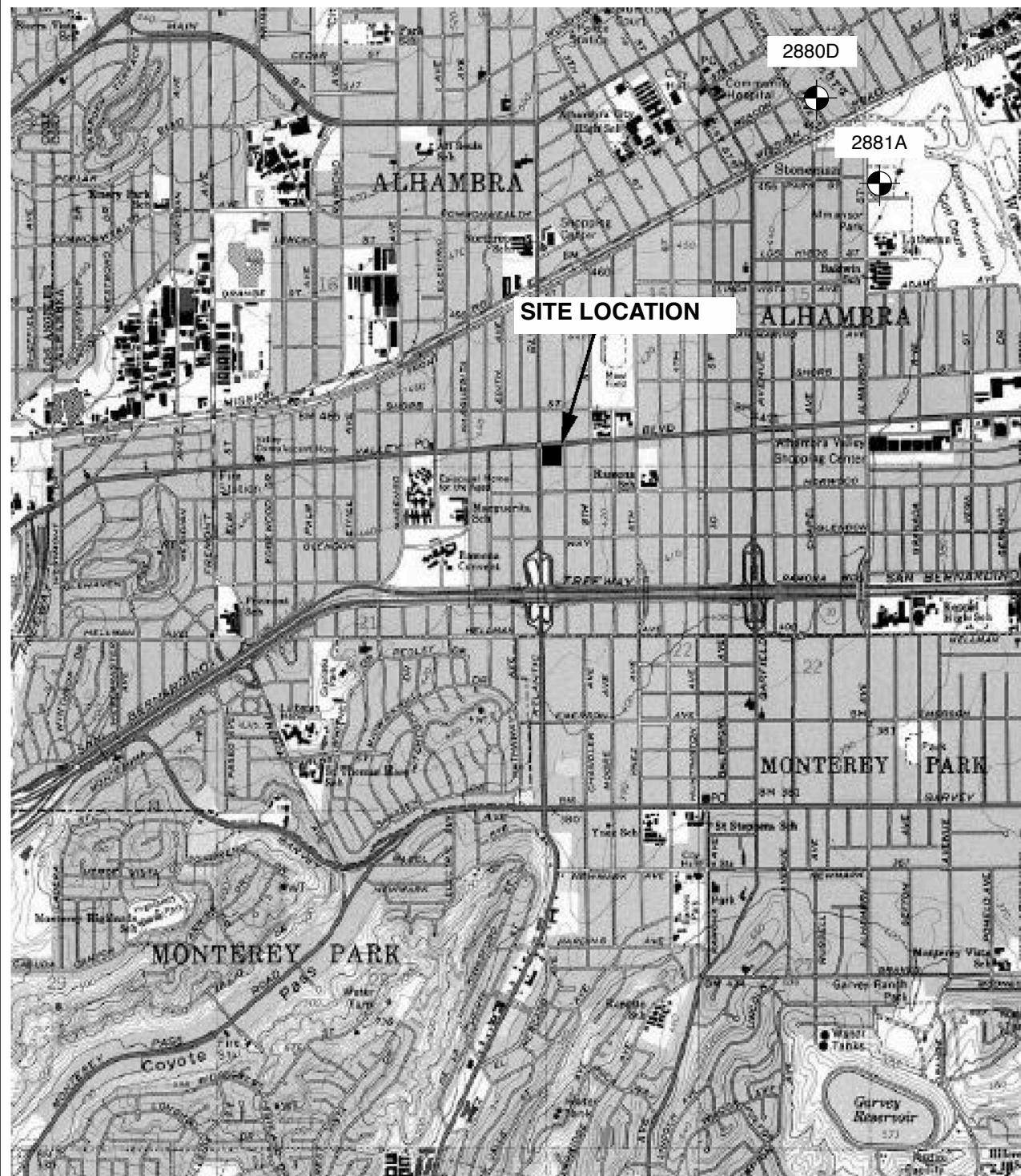
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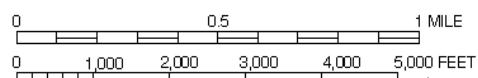
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## **FIGURES**



#### LEGEND



0 0.5 1 KILOMETER

USGS LOS ANGELES 7.5 MINUTE SERIES QUADRANGLE  
TOPO® 2000 NATIONAL GEOGRAPHIC HOLDINGS (WWW.TOPO.COM)

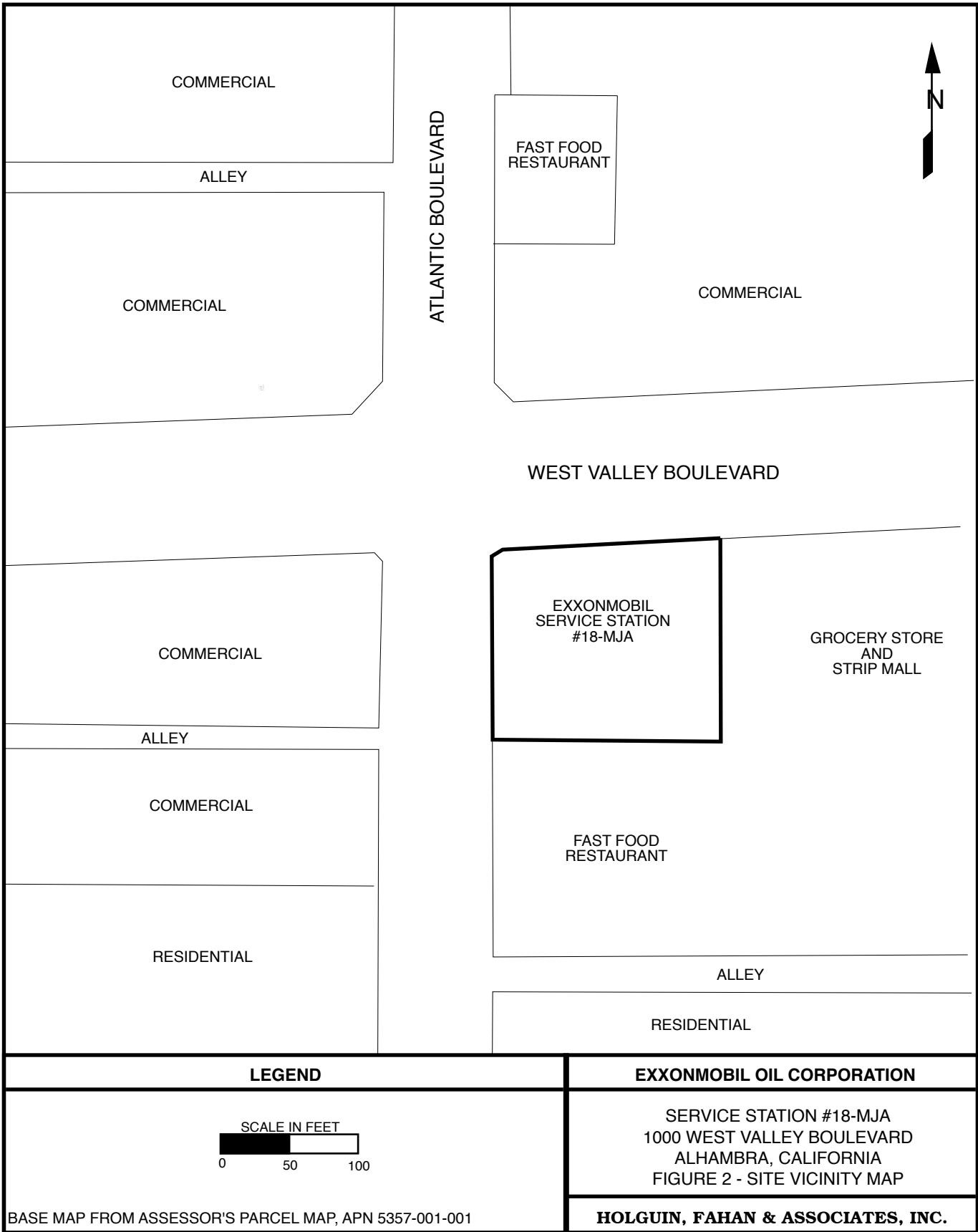
PRODUCTION WELL



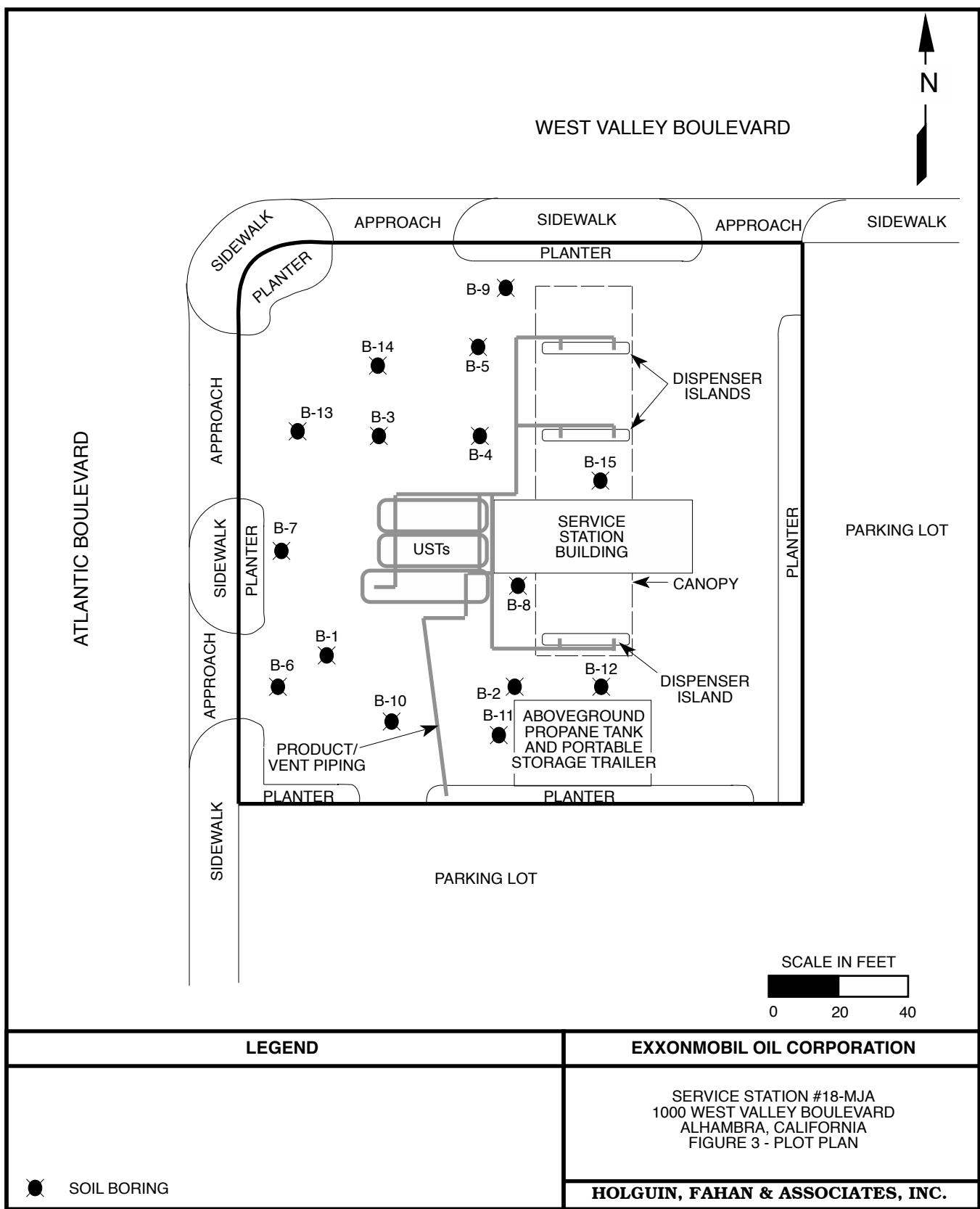
#### EXXONMOBIL OIL CORPORATION

SERVICE STATION #18-MJA  
1000 WEST VALLEY BOULEVARD  
ALHAMBRA, CALIFORNIA  
FIGURE 1 - SITE LOCATION MAP

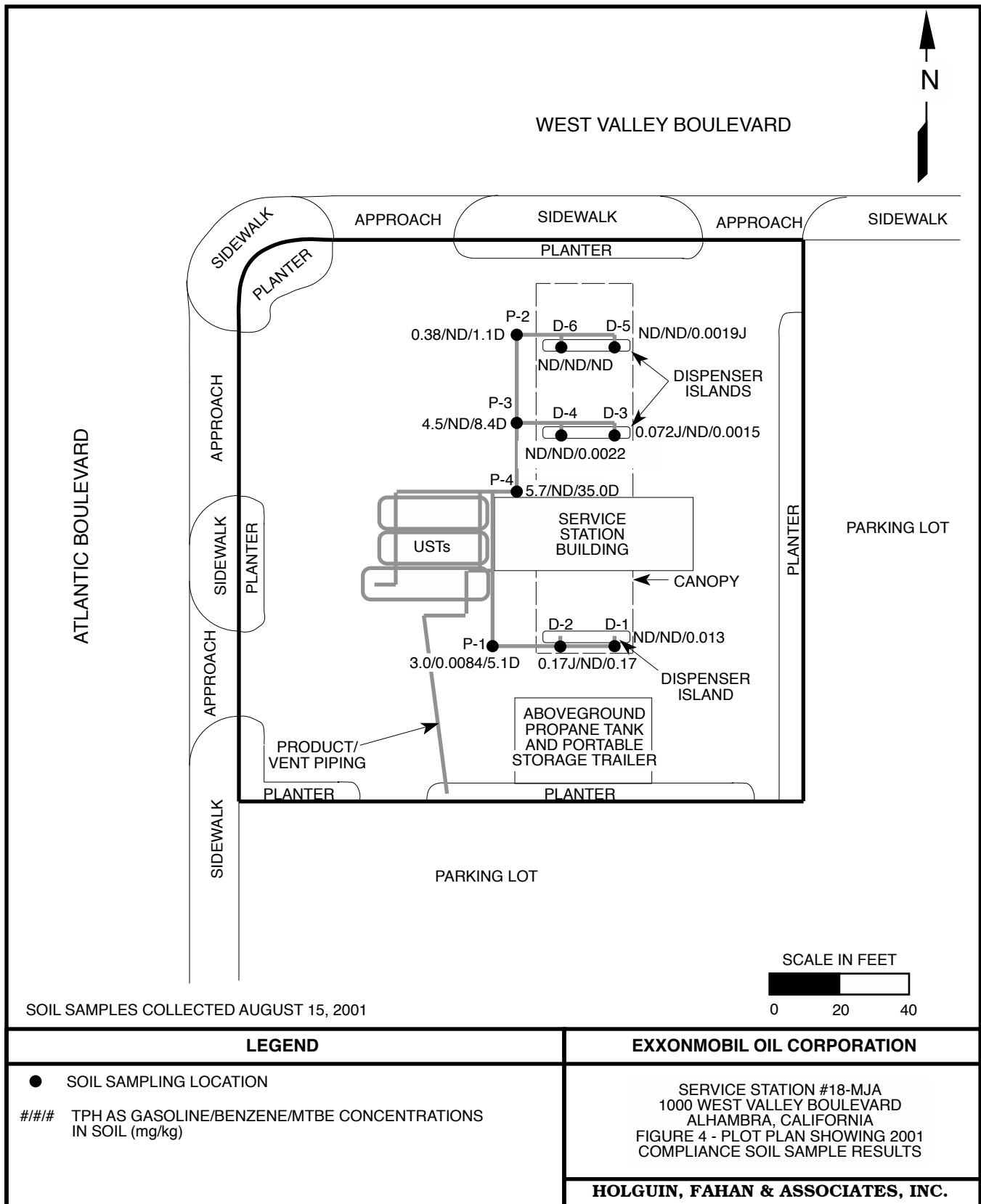
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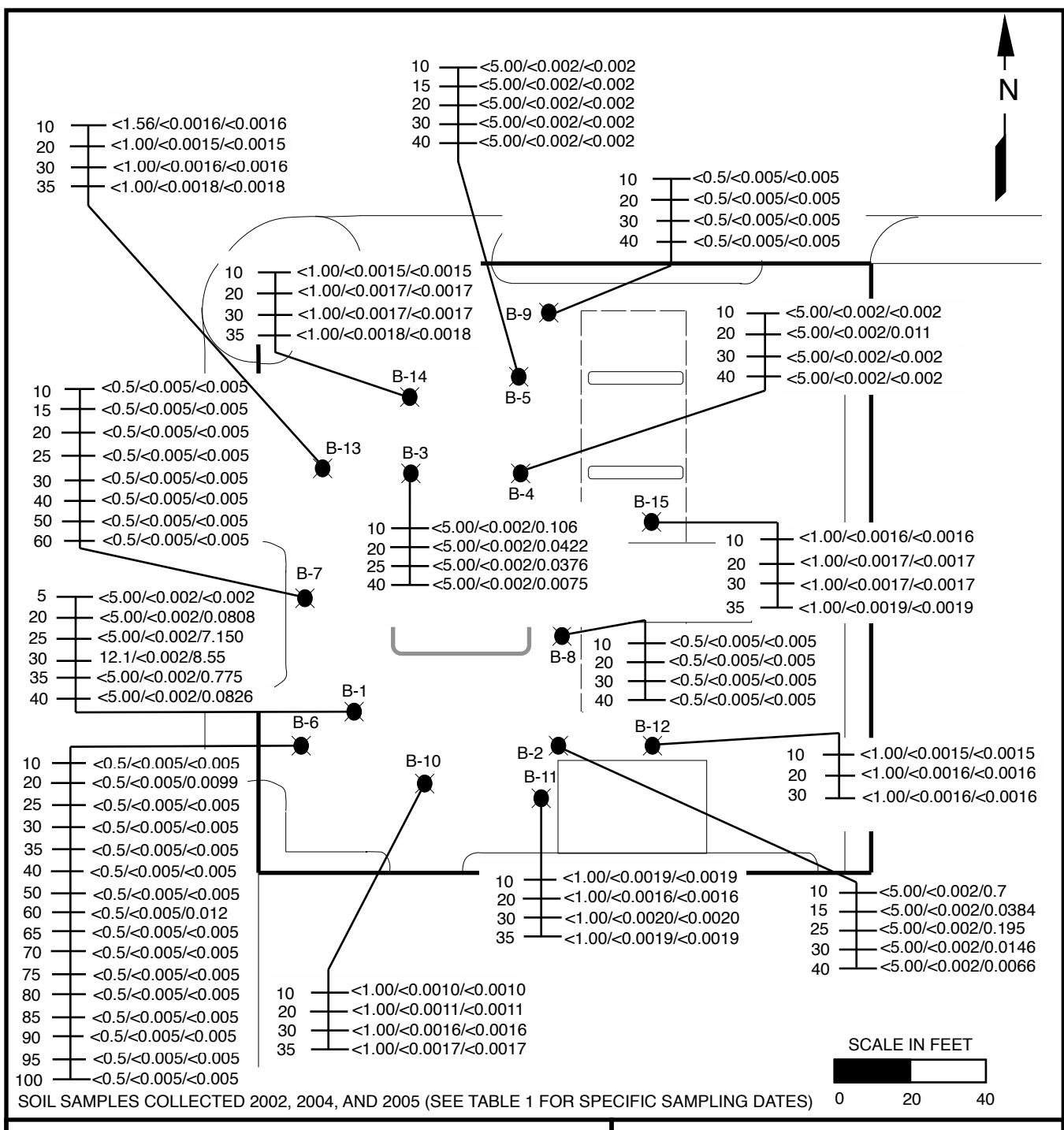
REVISION DATE: JULY 25, 2004: LBS



REVISION DATE: APRIL 25, 2005: JML

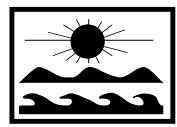


REVISION DATE: APRIL 25, 2005: JML



LEGEND	EXXONMOBIL OIL CORPORATION
# ┴ DEPTH OF SOIL SAMPLE (fbg)	SERVICE STATION #18-MJA 1000 WEST VALLEY BOULEVARD ALHAMBRA, CALIFORNIA
┴ #/# TPH AS GASOLINE/BENZENE/MTBE CONCENTRATIONS IN SOIL (mg/kg)	FIGURE 5 - ADSORBED-PHASE HYDROCARBON CONCENTRATIONS FOR SOIL BORINGS
<# NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT INDICATED	HOLGUIN, FAHAN & ASSOCIATES, INC.
● SOIL BORING	

REVISION DATE: MAY 10, 2005: KDH



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## TABLES

**TABLE 1**  
**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS**  
**EXXONMOBIL OIL CORPORATION SERVICE STATION #18-MJA, ALHAMBRA, CALIFORNIA**

SAMPLE SOURCE	DATE SAMPLED	DEPTH (fbg)	SAMPLE ID	TPH AS GASOLINE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLEMES (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	ETHANOL (mg/kg)	TOTAL LEAD (mg/kg)	REF
EPA ANALYTICAL METHOD				8015 (M)/CA-LUFT	8020/8260B										6010B	N/A
B-1	3-27-02	5	B-1-5	<5.00	<0.002	<0.002	<0.002	<0.002	<0.10	<0.002	<0.002	<0.002	<0.002	--	--	A
	3-27-02	20	B-1-20	<5.00	<0.002	<0.002	<0.002	<0.002	0.0808	9.80	<0.002	<0.002	<0.002	--	--	A
	3-27-02	25	B-1-25	<5.00	<0.002	<0.002	<0.002	<0.002	7.150	25.4	<0.002	<0.002	<0.002	--	--	A
	3-27-02	30	B-1-30	12.1	<0.002	<0.002	<0.002	<0.002	8.55	<50.0	<0.002	<0.002	<0.002	--	2.39	A
	3-27-02	35	B-1-35	<5.00	<0.002	<0.002	<0.002	<0.002	0.775	0.181	<0.002	<0.002	<0.002	--	--	A
	3-27-02	40	B-1-40	<5.00	<0.002	<0.002	<0.002	<0.002	0.0826	<0.10	<0.002	<0.002	<0.002	--	--	A
B-2	3-27-02	10	B-2-10	<5.00	<0.002	<0.002	<0.002	<0.002	0.7	<0.10	<0.002	<0.002	<0.002	--	--	A
	3-27-02	15	B-2-15	<5.00	<0.002	<0.002	<0.002	<0.002	0.0384	1.22	<0.002	<0.002	<0.002	--	--	A
	3-27-02	25	B-2-25	<5.00	<0.002	<0.002	<0.002	<0.002	0.195	<0.10	<0.002	<0.002	<0.002	--	3.52	A
	3-27-02	30	B-2-30	<5.00	<0.002	<0.002	<0.002	<0.002	0.0146	<0.10	<0.002	<0.002	<0.002	--	--	A
	3-27-02	40	B-2-40	<5.00	<0.002	<0.002	<0.002	<0.002	0.0066	<0.10	<0.002	<0.002	<0.002	--	--	A
B-3	3-27-02	10	B-3-10	<5.00	<0.002	<0.002	<0.002	<0.002	0.106	<0.10	<0.002	<0.002	<0.002	--	--	A
	3-27-02	20	B-3-20	<5.00	<0.002	<0.002	<0.002	<0.002	0.0422	0.221	<0.002	<0.002	<0.002	--	--	A
	3-27-02	25	B-3-25	<5.00	<0.002	<0.002	<0.002	<0.002	0.0376	9.4	<0.002	<0.002	<0.002	--	2.72	A
	3-27-02	40	B-3-40	<5.00	<0.002	<0.002	<0.002	<0.002	0.0075	<0.10	<0.002	<0.002	<0.002	--	--	A
B-4	3-27-02	10	B-4-10	<5.00	<0.002	<0.002	<0.002	<0.002	<0.002	<0.10	<0.002	<0.002	<0.002	--	--	A
	3-27-02	20	B-4-20	<5.00	<0.002	<0.002	<0.002	<0.002	0.011	1.36	<0.002	<0.002	<0.002	--	4.02	A
	3-27-02	30	B-4-30	<5.00	<0.002	<0.002	<0.002	<0.002	<0.002	<0.10	<0.002	<0.002	<0.002	--	--	A
	3-27-02	40	B-4-40	<5.00	<0.002	<0.002	<0.002	<0.002	<0.002	<0.10	<0.002	<0.002	<0.002	--	--	A
B-5	3-28-02	10	B-5-10	<5.00	<0.002	<0.002	<0.002	<0.002	<0.10	<0.002	<0.002	<0.002	<0.002	--	--	A
	3-28-02	15	B-5-15	<5.00	<0.002	<0.002	<0.002	<0.002	<0.10	<0.002	<0.002	<0.002	<0.002	--	0.971	A
	3-28-02	20	B-5-20	<5.00	<0.002	<0.002	<0.002	<0.002	<0.10	<0.002	<0.002	<0.002	<0.002	--	--	A
	3-28-02	30	B-5-30	<5.00	<0.002	<0.002	<0.002	<0.002	<0.10	<0.002	<0.002	<0.002	<0.002	--	--	A
	3-28-02	40	B-5-40	<5.00	<0.002	<0.002	<0.002	<0.002	<0.10	<0.002	<0.002	<0.002	<0.002	--	--	A
B-6	4-28-04	10	B-6-10	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	--	--	B
	4-28-04	20	B-6-20	<0.5	<0.005	<0.005	<0.005	<0.01	0.0099	1.9	<0.005	<0.005	<0.005	<5.00	2.59	B
	4-28-04	25	B-6-25	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	--	--	B
	4-28-04	30	B-6-30	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-28-04	35	B-6-35	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	--	--	B
	4-28-04	40	B-6-40	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-28-04	50	B-6-50	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-28-04	60	B-6-60	<0.5	<0.005	<0.005	<0.005	<0.01	0.012	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-28-04	65	B-6-65	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	--	--	B
	4-28-04	70	B-6-70	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-28-04	75	B-6-75	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	--	--	B
	4-28-04	80	B-6-80	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B

**TABLE 1**  
**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS**  
**EXXONMOBIL OIL CORPORATION SERVICE STATION #18-MJA, ALHAMBRA, CALIFORNIA**

SAMPLE SOURCE	DATE SAMPLED	DEPTH (fbg)	SAMPLE ID	TPH AS GASOLINE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLEMES (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	ETHANOL (mg/kg)	TOTAL LEAD (mg/kg)	REF
EPA ANALYTICAL METHOD			8015 (M)/CA-LUFT				8020/8260B								6010B	N/A
	4-28-04	85	B-6-85	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	--	--	B
	4-28-04	90	B-6-90	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-28-04	95	B-6-95	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	--	--	B
	4-28-04	100	B-6-100	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
B-7	4-29-04	10	B-7-10	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-29-04	15	B-7-15	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	--	--	B
	4-29-04	20	B-7-20	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	1.6	<0.005	<0.005	<0.005	<5.00	2.79	B
	4-29-04	25	B-7-25	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	--	--	B
	4-29-04	30	B-7-30	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-29-04	40	B-7-40	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-29-04	50	B-7-50	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-29-04	60	B-7-60	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
B-8	4-29-04	10	B-8-10	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-29-04	20	B-8-20	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	2.32	B
	4-29-04	30	B-8-30	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-29-04	40	B-8-40	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
B-9	4-30-04	10	B-9-10	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-30-04	20	B-9-20	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	3.40	B
	4-30-04	30	B-9-30	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
	4-30-04	40	B-9-40	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	<0.025	<0.005	<0.005	<0.005	<5.00	--	B
B-10	3-22-05	10	B-10-10	<1.00	<0.0010	<0.0010	<0.0010	<0.0010	<0.0262	<0.0010	<0.010	<0.0010	--	--	C	
	3-22-05	20	B-10-20	<1.00	<0.0011	<0.0011	<0.0011	<0.0011	<0.0265	<0.0011	<0.0011	<0.0011	--	--	C	
	3-22-05	30	B-10-30	<1.00	<0.0016	<0.0016	<0.0016	<0.0016	<0.0388	<0.0016	<0.0016	<0.0016	--	--	C	
	3-22-05	35	B-10-35	<1.00	<0.0017	<0.0017	<0.0017	<0.0017	<0.0417	<0.0017	<0.0017	<0.0017	--	--	C	
B-11	3-23-05	10	B-11-10	<1.00	<0.0019	<0.0019	<0.0019	<0.0019	<0.0472	<0.0019	<0.0019	<0.0019	--	--	C	
	3-23-05	20	B-11-20	<1.00	<0.0016	<0.0016	<0.0016	<0.0016	<0.0390	<0.0016	<0.0016	<0.0016	--	--	C	
	3-23-05	30	B-11-30	<1.00	<0.0020	<0.0020	<0.0020	<0.0020	<0.111	<0.0020	<0.0020	<0.0020	--	--	C	
	3-23-05	35	B-11-35	<1.00	<0.0019	<0.0019	<0.0019	<0.0019	<0.0463	<0.0019	<0.0019	<0.0019	--	--	C	
B-12	3-23-05	10	B-12-10	<1.00	<0.0015	<0.0015	<0.0015	<0.0015	<0.0381	<0.0015	<0.0015	<0.0015	--	--	C	
	3-23-05	20	B-12-20	<1.00	<0.0016	<0.0016	<0.0016	<0.0016	<0.0405	<0.0016	<0.0016	<0.0016	--	--	C	
	3-23-05	30	B-12-30	<1.00	<0.0016	<0.0016	<0.0016	<0.0016	<0.0388	<0.0016	<0.0016	<0.0016	--	--	C	
B-13	3-23-05	10	B-13-10	<1.56	<0.0016	<0.0016	<0.0016	<0.0016	<0.0407	<0.0016	<0.0016	<0.0016	--	--	C	
	3-23-05	20	B-13-20	<1.00	<0.0015	<0.0015	<0.0015	<0.0015	<0.0385	<0.0015	<0.0015	<0.0015	--	--	C	
	3-23-05	30	B-13-30	<1.00	<0.0016	<0.0016	<0.0016	<0.0016	<0.0398	<0.0016	<0.0016	<0.0016	--	--	C	
	3-23-05	35	B-13-35	<1.00	<0.0018	<0.0018	<0.0018	<0.0018	<0.0454	<0.0018	<0.0018	<0.0018	--	--	C	

**TABLE 1**  
**SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS**  
**EXXONMOBIL OIL CORPORATION SERVICE STATION #18-MJA, ALHAMBRA, CALIFORNIA**

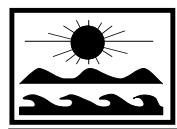
SAMPLE SOURCE	DATE SAMPLED	DEPTH (fbg)	SAMPLE ID	TPH AS GASOLINE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLEMES (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	ETHANOL (mg/kg)	TOTAL LEAD (mg/kg)	REF	
EPA ANALYTICAL METHOD				8015 (M)/CA-LUFT										8020/8260B		6010B	N/A
B-14	3-24-05	10	B-14-10	<1.00	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0383	<0.0015	<0.0015	<0.0015	--	--	C	
	3-24-05	20	B-14-20	<1.00	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0433	<0.0017	<0.0017	<0.0017	--	--	C	
	3-24-05	30	B-14-30	<1.00	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0428	<0.0017	<0.0017	<0.0017	--	--	C	
	3-24-05	35	B-14-35	<1.00	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0441	<0.0018	<0.0018	<0.0018	--	--	C	
B-15	3-24-05	10	B-15-10	<1.00	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0391	<0.0016	<0.0016	<0.0016	--	--	C	
	3-24-05	20	B-15-20	<1.00	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0436	<0.0017	<0.0017	<0.0017	--	--	C	
	3-24-05	30	B-15-30	<1.00	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0436	<0.0017	<0.0017	<0.0017	--	--	C	
	3-24-05	35	B-15-35	<1.00	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0481	<0.0019	<0.0019	<0.0019	--	--	C	

-- = Not analyzed. <# = Not detected above the laboratory reporting limit indicated.

A = Holguin, Fahan & Associates, Inc.'s (HFA's) report dated May 28, 2002.

B = HFA's report dated June 29, 2004.

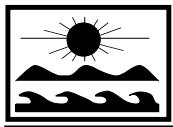
C = HFA's current report.



**HOLGUIN,  
FAHAN &  
ASSOCIATES, INC.**

ENVIRONMENTAL MANAGEMENT CONSULTANTS

## APPENDICES

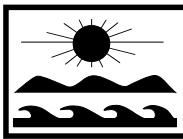


**HOLGUIN,  
FAHAN &  
ASSOCIATES, INC.**

ENVIRONMENTAL MANAGEMENT CONSULTANTS

**APPENDIX 1.**

**AGENCY NOTIFICATION LETTER**



# HOLGUIN, FAHAN & ASSOCIATES, INC.

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ENVIRONMENTAL      MANAGEMENT      CONSULTANTS

March 10, 2005

Mr. John Awujo  
Los Angeles County Department of Public Works  
900 South Fremont Avenue, Annex Building, Third Floor  
Alhambra, California 91803-1131

Subject: **IMPLEMENTATION OF WORK PLAN FOR SITE ASSESSMENT ACTIVITIES FOR  
EXXONMOBIL OIL CORPORATION SERVICE STATION #18-MJA  
1000 WEST VALLEY BOULEVARD, ALHAMBRA, CALIFORNIA  
(LACDPW FILE #009599-9425)**

Dear Mr. Awujo:

On behalf of ExxonMobil Oil Corporation (ExxonMobil), Holguin, Fahan & Associates, Inc. (HFA) submitted a work plan for site assessment dated January 17, 2005, to conduct an assessment for the above-referenced site. As of this date, the Los Angeles County Department of Public Works (LACDPW) has not issued a written response to the work plan. HFA hereby notifies the LACDPW of its intent to invoke the "60-day policy" per California Code of Regulations 23, Division 3, Chapter 16, Article 11, Section 2722(e), and implement the work plan if a written response is not received by March 18, 2005. In accordance with the work plan, the LACDPW will be notified at least 72 hours prior to beginning on-site activities.

Holguin, Fahan & Associates, Inc. trusts that this notification provides you with the information you require. If you have any questions or require additional information, please contact me at (909) 422-8988, extension 15, or [Lorien\\_Sanders@hfa.com](mailto:Lorien_Sanders@hfa.com).

Respectfully submitted,

Lorien B. Sanders, REA  
Associate Hydrogeologist  
Holguin, Fahan & Associates, Inc.

LBS:kh:dm:jda:sp

cc: Mr. Greg Barton, ExxonMobil

**ENVIRONMENTAL • SCIENTISTS • GEOLOGISTS • ENGINEERS**  
Contaminated Site Assessment • Site Remediation • Mobile Remediation • CPT Service • Groundwater Monitoring

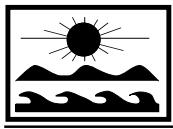
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**HOLGUIN,  
FAHAN &  
ASSOCIATES, INC.**

ENVIRONMENTAL MANAGEMENT CONSULTANTS

**APPENDIX 2.**

**LOGS OF EXPLORATORY BORINGS**

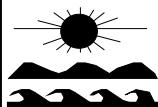
**LITHOLOGY**  
**(UNIFIED SOIL CLASSIFICATION SYSTEM)**

MAJOR DIVISIONS		GROUP SYMBOLS	TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS LARGER THAN No. 200 SIEVE	GRAVEL MORE THAN HALF COARSE FRACTION IS LARGER THAN No. 4 SIEVE SIZE	GRAVELS WITH LITTLE OR NO FINES	GW WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
			GP POORLY-GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH OVER 12% FINES	GM SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
			GC CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SAND MORE THAN HALF COARSE FRACTION IS SMALLER THAN No. 4 SIEVE SIZE	SANDS WITH LITTLE OR NO FINES	SW WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SP POORLY-GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH OVER 12% FINES	SM SILTY SANDS, SAND-SILT MIXTURES
			SC CLAYEY SANDS, SAND-CLAY MIXTURES
	SILT AND CLAY	ML INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY	
		CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
		OL ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
		MH INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS	
	SILT AND CLAY	CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
		OH ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
HIGHLY ORGANIC SOIL		Pt PEAT AND OTHER HIGHLY ORGANIC SOILS	

**SYMBOLS AND ACRONYMS**

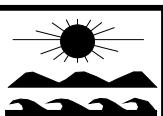
- SOIL SAMPLE COLLECTED
- ☒ SOIL SAMPLE NOT RECOVERED
- ▽ GROUNDWATER ENCOUNTERED DURING DRILLING
- ↑ WELL BOX WITH LOCKING CAP
- BLANK SCHEDULE 40 PVC CASING
- MICROPOROUS BUBBLER
- SLOTTED SCHEDULE 40 PVC CASING
- BOTTOM PLUG

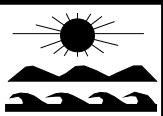
- |   |                            |
|---|----------------------------|
|  | ASPHALT                    |
|  | CONCRETE                   |
|  | BENTONITE/CEMENT GROUT     |
|  | BENTONITE CHIPS OR PELLETS |
|  | FILTER SAND PACK           |
| PID = PHOTOIONIZATION DETECTOR  |                            |
| ppmv = PARTS PER MILLION BY VOLUME  |                            |
| USCS = UNIFIED SOIL CLASSIFICATION SYSTEM   |                            |
| fbg = FEET BELOW GRADE  |                            |
| OD = OUTSIDE DIAMETER   |                            |

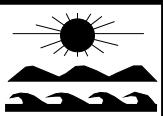


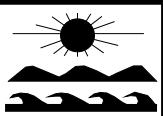
**HOLGUIN,  
FAHAN &  
ASSOCIATES, INC.**

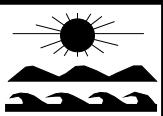
**KEY TO LOG OF EXPLORATORY BORING**

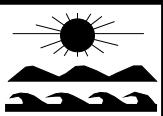
SAMPLE		CLIENT: ExxonMobil Oil Corporation			COMPLETION DETAIL			
INTERVAL	DEPTH (fbg)	PROJECT: Service Station #18-MJA			GROUNDWATER WELL			
		LOCATION: 1000 West Valley Boulevard, Alhambra, CA			VADOSE WELL			
		DESCRIPTION AND SOIL CLASSIFICATION			SPARGE WELL			
		NAME: %gravel/sand/fines, gradation/plasticity, color, angularity, maximum size (gravels), density/consistency, moisture, stain			X BORING			
0	6" Asphalt							
5	SAND WITH GRAVEL: 5/95/0, well graded, light brown, subrounded, medium- to coarse-grained, gravel up to 1/2 ", dry, no stain			--				
10	SILTY SAND WITH GRAVEL: 5/70/25, well graded, light brown, subrounded, fine- to coarse-grained, gravel up to 1/4", dry, no stain		--	0	SW			
15	SANDY GRAVEL: 70/30/0, well graded, light brown, subrounded, medium- to coarse-grained, gravel up to 1/2", dry, no stain		--	0	GW			
20	SANDY SILT: 0/15/85, poorly graded, brown, subrounded, fine-grained, moist, no stain		--	0	ML			
25			--	0				
30	SAND: 0/100/0, poorly graded, light brown, rounded, fine- to medium-grained, moist, no stain		--	0	SP			
35	SAND: 0/100/0, well graded, light brown, subrounded, fine- to coarse-grained, moist, no stain		--	0	SW			
	Boring terminated at 35 fbg							
DRILLING METHOD: Direct-Push (Geoprobe)				DATE DRILLED: March 22, 2005				
SAMPLER TYPE: Split Spoon				LOGGED BY: Jessica Law				
TOTAL BORING DEPTH: 35 fbg				APPROVED BY: Mark Fahan, RG #4279				
DEPTH TO WATER: Not encountered				DRILLED BY: HFA				
	HOLGUIN, FAHAN & ASSOCIATES, INC.		LOG OF EXPLORATORY BORING				B-10 Page 1 of 1	

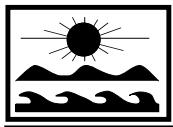
SAMPLE		CLIENT: ExxonMobil Oil Corporation			COMPLETION DETAIL			
INTERVAL	DEPTH (fbg)	PROJECT: Service Station #18-MJA		LOCATION: 1000 West Valley Boulevard, Alhambra, CA	BLOWS PER 6 INCHES	PID (ppmv)	USCS	
DESCRIPTION AND SOIL CLASSIFICATION								
		NAME: %gravel/sand/fines, gradation/plasticity, color, angularity, maximum size (gravels), density/consistency, moisture, stain					CASING: --	
0	6" Asphalt						SLOT SIZE: --	
		SAND WITH GRAVEL: 5/95/0, well graded, light brown, subrounded, fine- to coarse-grained, gravel up to 1", dry, no stain			0	SW	FILTER PACK: --	
5								
10		SANDY SILT: 0/20/80, well graded, light brown, subrounded, fine- to coarse-grained, dry, no stain	--	0	ML			
15		GRAVELLY SAND: 15/85/0, well graded, light brown, subrounded, fine- to coarse-grained, gravel up to 3/4", moist, no stain	--	0	SW			
20		SANDY SILT: 0/20/80, well graded, brown, rounded, fine- to coarse-grained, moist, no stain	--	0	ML			
25		0/10/90, poorly graded, fine-grained	--	0				
30		SAND: 0/100/0, poorly graded, light brown, rounded, fine-grained, dry, no stain	--	0	SP			
		GRAVELLY SAND: 20/80/0, well graded, light brown, subrounded, fine- to coarse-grained, gravel up to 1/2", dry, no stain	--	0	SW			
35		Boring terminated at 35 fbg						
DRILLING METHOD: Direct-Push (Geoprobe)				DATE DRILLED: March 23, 2005				
SAMPLER TYPE: Split Spoon				LOGGED BY: Jessica Law				
TOTAL BORING DEPTH: 35 fbg				APPROVED BY: Mark Fahan, RG #4279				
DEPTH TO WATER: Not encountered				DRILLED BY: HFA				
		<b>HOLGUIN, FAHAN &amp; ASSOCIATES, INC.</b>		<b>LOG OF EXPLORATORY BORING</b>			<b>B-11</b> Page 1 of 1	

SAMPLE		CLIENT: ExxonMobil Oil Corporation			COMPLETION DETAIL	
INTERVAL	DEPTH (fbg)	PROJECT: Service Station #18-MJA			GROUNDWATER WELL	
		LOCATION: 1000 West Valley Boulevard, Alhambra, CA			VADOSE WELL	
		DESCRIPTION AND SOIL CLASSIFICATION			SPARGE WELL	
		NAME: %gravel/sand/fines, gradation/plasticity, color, angularity, maximum size (gravels), density/consistency, moisture, stain			X BORING	
0	6" Asphalt				CASING:	--
5	SANDY SILT: 0/20/80, poorly graded, light brown, subrounded, fine-grained, dry, no stain				SLOT SIZE:	--
10					FILTER PACK:	--
15	GRAVELLY SAND: 30/70/0, well graded, light brown, subrounded, fine- to coarse-grained, gravel up to 3/4", dry, no stain	--	0	SW		
20	SILT WITH SAND : 0/5/95, poorly graded, light brown, subrounded, medium-grained, dry, no stain	--	0	ML		
25		--	0			
30	SAND: 0/100/0, poorly graded, light brown, subrounded, fine-grained, damp, no stain	--	0	SP		
35	Refusal encountered, boring terminated at 34 fbg					
DRILLING METHOD: Direct-Push (Geoprobe)			DATE DRILLED: March 23, 2005			
SAMPLER TYPE: Split Spoon			LOGGED BY: Jessica Law			
TOTAL BORING DEPTH: 34 fbg			APPROVED BY: Mark Fahan, RG #4279			
DEPTH TO WATER: not encountered			DRILLED BY: HFA			
 <b>HOLGUIN, FAHAN &amp; ASSOCIATES, INC.</b>		<b>LOG OF EXPLORATORY BORING</b>				<b>B-12</b>
Page 1 of 1						

SAMPLE		CLIENT: ExxonMobil Oil Corporation			<b>COMPLETION DETAIL</b> <input type="checkbox"/> GROUNDWATER WELL <input type="checkbox"/> VADOSE WELL <input checked="" type="checkbox"/> SPARGE WELL <input checked="" type="checkbox"/> BORING			
INTERVAL DEPTH (fbg)		PROJECT: Service Station #18-MJA						
		LOCATION: 1000 West Valley Boulevard, Alhambra, CA						
		DESCRIPTION AND SOIL CLASSIFICATION  NAME: %gravel/sand/fines, gradation/plasticity, color, angularity, maximum size (gravels), density/consistency, moisture, stain						
0	6"	Asphalt						
5		GRAVELLY SAND: 35/65/0, well graded, light brown, subrounded, fine- to coarse-grained, gravel up to 1 1/2", damp, no stain			0	SW		
10				--	0			
15		SANDY SILT: 0/20/80, poorly graded, brown, subrounded, fine- to medium-grained, moist, no stain		--	0	ML		
20				--	0			
25				--	0			
30				--	0			
35		SAND: 0/100/0, poorly graded, light brown, subrounded, fine-grained, moist, no stain		--	0	SP		
Boring terminated at 35 fbg								
DRILLING METHOD: Direct-Push (Geoprobe)			DATE DRILLED: March 23, 2005					
SAMPLER TYPE: Split Spoon			LOGGED BY: Jessica Law					
TOTAL BORING DEPTH: 35 fbg			APPROVED BY: Mark Fahan, RG #4279					
DEPTH TO WATER: Not encountered			DRILLED BY: HFA					
	<b>HOLGUIN, FAHAN &amp; ASSOCIATES, INC.</b>	<b>LOG OF EXPLORATORY BORING</b>			<b>B-13</b>			
Page 1 of 1								

SAMPLE		CLIENT: ExxonMobil Oil Corporation			COMPLETION DETAIL		
INTERVAL	DEPTH (fbg)	PROJECT: Service Station #18-MJA			GROUNDWATER WELL		
		LOCATION: 1000 West Valley Boulevard, Alhambra, CA			VADOSE WELL		
		DESCRIPTION AND SOIL CLASSIFICATION			SPARGE WELL		
		NAME: %gravel/sand/fines, gradation/plasticity, color, angularity, maximum size (gravels), density/consistency, moisture, stain			X BORING		
0	6" Asphalt				CASING:	--	
5	SILTY SAND WITH GRAVEL: 10/70/20, well graded, light brown, subrounded, fine- to coarse-grained, gravel up to 1 ", damp, no stain				SLOT SIZE:	--	
10					FILTER PACK:	--	
15	GRAVELLY SAND: 30/70/0, well graded, light brown, subrounded, fine- to coarse-grained, gravel up to 1 1/2", damp, no stain						
20	SANDY SILT: 0/30/70, poorly graded, brown, fine- to medium-grained, moist, no stain						
25							
30	0/20/80, fine-grained						
35	GRAVELLY SAND WITH SILT: 15/80/5, well graded, light brown, subrounded, fine- to coarse-grained, gravel up to 3/4", moist, no stain						
Boring terminated at 35 fbg							
DRILLING METHOD: Direct-Push (Geoprobe)			DATE DRILLED: March 24, 2005				
SAMPLER TYPE: Split Spoon			LOGGED BY: Jessica Law				
TOTAL BORING DEPTH: 35 fbg			APPROVED BY: Mark Fahan, RG #4279				
DEPTH TO WATER: Not encountered			DRILLED BY: HFA				
		<b>HOLGUIN, FAHAN &amp; ASSOCIATES, INC.</b>		<b>LOG OF EXPLORATORY BORING</b>		<b>B-14</b> Page 1 of 1	

SAMPLE		CLIENT: ExxonMobil Oil Corporation			COMPLETION DETAIL <input type="checkbox"/> GROUNDWATER WELL <input type="checkbox"/> VADOSE WELL <input checked="" type="checkbox"/> SPARGE WELL <input checked="" type="checkbox"/> BORING			
INTERVAL	DEPTH (fbg)	PROJECT: Service Station #18-MJA						
		LOCATION: 1000 West Valley Boulevard, Alhambra, CA						
		DESCRIPTION AND SOIL CLASSIFICATION NAME: %gravel/sand/fines, gradation/plasticity, color, angularity, maximum size (gravels), density/consistency, moisture, stain						
0	6" Asphalt							
5	SILT: 0/0/100, brown, moist, no stain			0	ML			
10				--	0			
15	SAND: 0/100/0, well graded, light brown, subrounded, fine- to medium-grained, moist, no stain			--	0	SW		
20	SANDY SILT: 0/15/85, poorly graded, brown, subrounded, fine- to medium-grained, moist, no stain			--	0	ML		
25				--	0			
30	SILTY SAND: 0/85/15, poorly graded, light brown, subrounded, fine- to medium-grained, moist, no stain			--	0	SP		
35	SAND WITH SILT: 0/90/10, well graded, light brown, subrounded, fine- to coarse-grained, moist, no stain			--	0	SW		
	Boring terminated at 35 fbg							
DRILLING METHOD: Direct-Push (Geoprobe)			DATE DRILLED: March 24, 2005					
SAMPLER TYPE: Split Spoon			LOGGED BY: Jessica Law					
TOTAL BORING DEPTH: 35 fbg			APPROVED BY: Mark Fahan, RG #4279					
DEPTH TO WATER: Not encountered			DRILLED BY: HFA					
 <b>HOLGUIN, FAHAN &amp; ASSOCIATES, INC.</b>		<b>LOG OF EXPLORATORY BORING</b>				<b>B-15</b>		
Page 1 of 1								



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ENVIRONMENTAL MANAGEMENT CONSULTANTS

**APPENDIX 3.**

**SOIL BORING, DIRECT-PUSH SAMPLING, AND WELL CONSTRUCTION PROCEDURES**

## **SOIL BORING, DIRECT-PUSH SAMPLING, AND WELL CONSTRUCTION PROCEDURES**

### **PRE-DRILLING PROTOCOL**

#### **Planning**

Prior to the start of drilling, necessary permits, site access agreements, and/or encroachment permits are obtained. As-built drawings are obtained if possible. At least 2 weeks in advance of drilling, notifications are made to the property owner, client representative, on-site facility manager, regulatory agency, and/or other appropriate parties. At least 48 hours prior to drilling, Underground Service Alert of Southern California, Arizona Blue Stake, or an equivalent utility locating service is notified. A geophysical survey may be conducted to locate subsurface utilities. Site plans and/or as-built drawings are compared to actual conditions observed at the site. The property owner/retailer is interviewed to gain information about locations of former UST systems (including dispensers, product lines, and vent lines). A visual inspection is made of the locations of the existing UST system, and scars and patches in pavement are noted. The critical zone, which is defined as 10 feet from any part of the UST system as well as the area between the dispensers and USTs, is identified, and any proposed drilling locations within the critical zone may be subject to special hole clearance techniques. Drilling locations within the critical zone are avoided if possible.

A site-specific, worker health and safety plan, including a JSA and traffic control plan for all soil sampling locations for the site, is available at all times during drilling activities. Prior to commencing field activities, a health and safety meeting is held among all on-site personnel involved in the operations, including subcontractors and visitors, and is documented with a health and safety meeting sign-in form. The emergency shut-off switch for the service station is located prior to the start of the drilling activities. A fire extinguisher and "No Smoking" signs (and Proposition 65 signs in California) are present at the site prior to the start of the drilling activities.

In order to determine the natural subsurface conditions, better recognize fill conditions, and prevent cross contamination, the first sampling location is generally located the furthest from any suspected underground improvement.

When drilling a soil boring in asphalt or concrete, a minimum 10-inch round cut is made. When advancing a direct-push location, a minimum 3.5-inch round cut is made.

**Hole Clearance**

The minimum hole clearance depths are 5 feet below grade (fbg) outside the critical zone and 8 fbg within the critical zone and are conducted as follows:

- 0 to 5 fbg: The area to be cleared exceeds the diameter of the largest tool to be advanced and is large enough to allow for visual inspection of any obstructions encountered. The first 1 to 2 feet of soil or fill is removed by hand digging, then the borehole is probed using a blunt-tipped tool to ensure that no obstructions exist anywhere near the potential path of the drill auger or push-type sampler. Probing is extended laterally as far as possible. Hand augering or post-hole digging then proceeds, but only to the depth that has been probed. If subsurface characteristics prohibit effective probing, a hand auger is carefully advanced past the point of probing. In this case, sufficient hand augering or post-hole digging is performed to remove all the soil in the area to be delineated. For soil borings located outside of the critical zone, an attempt should be made to probe an additional 3 feet.
- 5 to 8 fbg: For the soil borings located inside the critical zone, probing and handclearing an additional 3 feet is performed. If probing is met with refusal, then trained personnel advance a hand auger without excessive force.

Alternate or additional subsurface clearance procedures may also be employed, as required by clients, permit conditions, and/or anticipated subsurface conditions (for example, near major utility corridors or in hard soils). Alternate clearance techniques may include performing a geophysical investigation or using an air knife or water knife. If subsurface conditions prevent adequate subsurface clearance, the field activities cease until the client gives written approval of a procedure for continuation.

When pea gravel, fill sand, or other non-indigenous material is encountered, the sampling location is abandoned unless the absence of subsurface facilities can be demonstrated and client approval to proceed is obtained. If hole clearance activities are conducted prior to the actual day of drilling, the holes are covered with plates and/or backfilled.

If any portion of the UST system is encountered, or if there is any possibility that it has been encountered, the work ceases, and the client is notified immediately. If there is reason to believe that the product system has been damaged, the emergency shut-off switch is activated. The client will decide if additional uncovering by hand is required. If it is confirmed that the UST system has been encountered, tightness tests are performed as required by the client. The hole is backfilled only with client approval.

## SOIL SAMPLING PROCEDURES

Soil samples are collected using one of the following methods:

- Manual drilling: Manual drilling utilizes a hand auger. Soil samples are collected with a drive sampler outfitted with steel or brass sleeves. The specific equipment used is noted on a log of exploratory boring.
- Truck-mounted, powered drilling: Truck-mounted, powered drilling utilizes hollow-stem flight auger drilling, air rotary drilling, percussion hammer drilling, or similar technologies. Soil samples are collected in steel or brass sleeves with a California-modified, split-spoon sampler or, for specific projects, a continuous sampler. The specific equipment used is noted on a log of exploratory boring.
- Direct push sampling: Direct push sampling utilizes Geoprobe, cone penetrometer testing rigs, or similar technologies. Soil samples are collected with a drive sampler outfitted with steel, acetate or brass sleeves. The specific equipment used is noted on a log of soil sample descriptions.

Before each soil sampling episode, the sampling equipment is decontaminated using a non-phosphate soap and water wash, and two tap-water rinses. The drill augers or direct-push rods are decontaminated with a steam cleaner between each soil boring (truck-mounted rigs).

Soil samples that are collected in sample sleeves are covered with aluminum foil or Teflon tape followed by plastic caps. If EPA Method 5035 is required, then 5 to 20 grams of soil is extracted from the sample and placed in methanol-preserved containers supplied by the laboratory, or subsamples are collected using Encore samplers. During the sampling process, soil samples and cuttings are field screened for VOCs using a photoionization detector calibrated to an isobutylene or hexane standard. The calibration information is recorded on an equipment calibration log. Any soil staining or discoloration is visually identified. Soils are classified according to the Unified Soil Classification System. Specific geologic and hydrogeologic information collected includes grading, plasticity, density, stiffness, mineral composition, moisture content, soil structure, grain size, degree of rounding, and other features that could affect contaminant transport. All data are recorded on a soil boring log under the supervision of a geologist registered in the state in which the site is located. The samples are labeled, sealed, recorded on a chain-of-custody record, and chilled to 4°C in accordance with the procedures outlined in the California State Water Resources Control Board's Leaking Underground Fuel Tank Field Manual or the Arizona Department of Environmental Quality's (ADEQ's) Leaking Underground Storage Tank Site Characterization Manual. Sample preservation, handling, and transportation procedures are consistent with Holguin, Fahan & Associates, Inc.'s quality assurance/quality control procedures. The samples are transported in a chilled container to a state-certified, hazardous waste testing laboratory.

Cuttings from the soil borings are stored in 55-gallon, Department of Transportation (DOT) approved drums, roll-off bins, or other appropriate containers, as approved by the client. Each container is labeled as waste material or non-hazardous waste, with the number of the soil boring(s) from which the waste was derived, the date the waste was generated, the generator name, and other pertinent information. The drums are stored at the site of generation, or at another location approved by the client until sample laboratory analytical results are obtained, at which time the soil is disposed of appropriately.

A soil boring log is completed for each soil sampling location and includes the following minimum information:

- date of drilling;
- project name and location;
- soil sample names and depths;
- soil descriptions and classifications;
- standard penetration counts (rigs);
- photoionization detector readings;
- drilling equipment;
- soil boring diameter;
- sampling equipment;
- depth to groundwater in soil boring;
- name of person performing logging;
- name of supervising registered geologist; and
- name of drilling company (rigs and direct push).

#### **HYDROPUNCH GROUNDWATER SAMPLING PROCEDURES**

Hydropunch sampling of groundwater is designed for collecting discrete, one-time samples of groundwater for analysis during the drilling or direct-push operations. The Hydropunch sampler consists of a 5-foot long, 1.5-inch diameter screen sheathed by a 2-inch diameter, steel barrel. A disposable point is connected to the bottom of the screen. The Hydropunch assembly is lowered through the hollow-stem auger and driven into the undisturbed soils below the base of the hole, or is pushed into the soil using a direct push rig. The outer sheath is then retracted to expose the screen. A bailer is then lowered into the Hydropunch assembly and retrieves a sample of the groundwater within the assembly.

The extracted groundwater is collected in chilled, 40-milliliter, volatile organic analysis vials having Teflon-lined caps, or other appropriate containers as required by the respective analytical method. For organic compound analyses, hydrochloric acid preservative is added to all containers by the laboratory to lower sample pH. Samples are held at 4°C while in the field

and in transit to the laboratory. Analysis is performed by a state-certified, hazardous waste testing laboratory.

Documentation requirements include:

- sample identification number;
- borehole identification number;
- time and date of sample collection;
- depth at which Hydropunch sample was collected;
- name of person collecting sample;
- number and types of sample containers; and
- type of preservative used, if any.

## **BOREHOLE COMPLETION PROCEDURES**

All sampling locations are either properly abandoned or completed as a well.

### **Abandonment**

Each borehole/sample location that is not completed as a well is backfilled with bentonite grout, neat cement, concrete, or bentonite chips with a permeability less than that of the surrounding soils, and/or soil cuttings, depending on local regulatory requirements or client instructions. Grout is placed by the tremie method. Backfilling is performed carefully to avoid bridging. The type of backfill material is noted on the log.

### **Well Installation**

Wells are designed according to applicable state and local regulations as well as project needs. Details of the well design and construction are recorded on the log and include the following minimum information (in addition to the items noted above for soil borings):

- detailed drawing of well;
- type of well (groundwater, vadose, or air sparging);
- casing diameter and material;
- screen slot size;
- well depth and screen length ( $\pm 1$  foot);
- filter pack material, size, and placement depths;
- annular seal material and placement depths; and
- surface seal design/construction.

Groundwater monitoring wells are generally designed with 30 feet of slotted casing that crosses the water table, unless site conditions, project needs, or local regulations dictate a different well design. Vadose wells are designed with slotted casing appropriate for the project needs, e.g.

slotted in hydrocarbon-containing intervals for vapor extraction. Air sparging wells are typically designed with 5 feet of slotted casing placed 15 feet below the water table. The sand pack is placed at least two feet above the top of the screen, and at least 3 feet of low permeability seal material is placed between the sand pack and the surface seal, unless shallow groundwater conditions exist (less than 5 fbg). The sand pack and low permeability seal material are placed in the annular space from the bottom up using the tremie method.

When drilling in asphalt, a 24-inch round cut is made for the well pad. When drilling on concrete, a 2 x 2-foot square or 24-inch circle is sawcut. The well cover is traffic-rated and has a white lid with a black triangle painted on it (3 inches per side) or a black lid with a white triangle (3 inches per side). The well pad is completed using concrete of a color matching the existing surface. The well number is labeled on the outside of the well box/pad and the inside of the well box. The number on the outside is painted on with a stencil, stamped, or attached to the well with a metal plate. The number on the inside is written on the well cap with waterproof ink. The casing has a notch or indication on its north side indicating a unique measuring/surveying point. Well casings are capped with a locking or slip well cap.

### **Well Development**

Well development is conducted by the use of surge blocks, bailers, pumps, or other appropriate methods in accordance with the requirements of the California Department of Water Resources Bulletin #74-81 dated December 1981, or ASTM International 4448-85a (as required by the ADEQ). Only formation water is used for surging the well. Well development continues until non-turbid groundwater is produced or turbidity stabilizes. The method of development and the volume of groundwater produced is recorded in the field log. All purged groundwater is held on-site, or at another location approved by the client, in sealed, 55-gallon DOT approved drums or other appropriate containers pending transport to an approved recycling facility.

### **Well Elevation Survey**

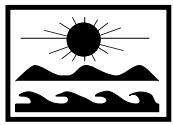
The elevation of the north side of the top of well casing (or other appropriate reference point from which the depth to groundwater can be measured) is surveyed to an accuracy of  $\pm 0.01$  foot. All measurements are reproduced to assure validity. Surveying may be performed by a state-licensed surveyor if required by state or local regulations. In the state of California, wells are surveyed in accordance with AB2886.

**DATA REDUCTION**

The data compiled from the soil borings are summarized and analyzed. A narrative summary of the soil characteristics is also presented. The logs are checked for the following information:

- correlation of stratigraphic units among sampling locations;
- identification of zones of potentially high hydraulic conductivity;
- identification of the confining layer;
- indication of unusual/unpredicted geologic features (fault zones, fracture traces, facies changes, solution channels, buried stream deposits, cross-cutting structures, pinchout zones, etc.); and
- continuity of petrographic features such as sorting, grain-size distribution, cementation, etc.

Soil boring/well locations are plotted on a properly scaled map. If appropriate, soil stratigraphy of the site is presented in a scaled cross section. Specific features that may impact contaminant migration, e.g., fault zones or impermeable layers, are discussed in narrative form and supplemented with graphical presentations as deemed appropriate.



**HOLGUIN,  
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ASSOCIATES, INC.**

ENVIRONMENTAL MANAGEMENT CONSULTANTS

**APPENDIX 4.**

**LABORATORY REPORT**



ANALYTICAL TESTING CORPORATION

2960 FOSTER CREIGHTON DRIVE • NASHVILLE, TENNESSEE 37204

800-765-0980 • 615-726-3404 FAX

**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43387  
Sample ID: B-10-10  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/22/05  
Time Collected: 9:45  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
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**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	92.0	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	3:05	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0010	1.0	4/ 1/05	17:50	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0010	1.0	4/ 1/05	17:50	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0262	1.0	4/ 1/05	17:50	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0010	1.0	4/ 1/05	17:50	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0010	1.0	4/ 1/05	17:50	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0010	1.0	4/ 1/05	17:50	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0010	1.0	4/ 1/05	17:50	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0010	1.0	4/ 1/05	17:50	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0010	1.0	4/ 1/05	17:50	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
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Volatile Organics	9.55 g	5.0 ml	3/22/05	9:45	J. Bundy	5035
BTX Prep	9.11 g	10.0 ml	3/22/05	9:45	J. Freeman	5035

Surrogate	% Recovery	Target Range
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## ANALYTICAL REPORT

Laboratory Number: 05-A43387  
Sample ID: B-10-10  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	94.	63. - 127.
VOA Surr, 1,2-DCA <sub>d</sub> 4	88.	72. - 134.
VOA Surr Toluene-d <sub>8</sub>	102.	76. - 122.
VOA Surr, 4-BFB	101.	60. - 138.
VOA Surr, DBFM	95.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
\*\* = NELAC E87358 Certified Analyte  
All results reported on a wet weight basis.



ANALYTICAL TESTING CORPORATION

2960 FOSTER CREIGHTON DRIVE • NASHVILLE, TENNESSEE 37204

800-765-0980 • 615-726-3404 FAX

**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43388  
Sample ID: B-10-20  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/22/05  
Time Collected: 10:15  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
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**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	87.4	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	3:36	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0011	1.0	4/ 1/05	18:17	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0011	1.0	4/ 1/05	18:17	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0265	1.0	4/ 1/05	18:17	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0011	1.0	4/ 1/05	18:17	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0011	1.0	4/ 1/05	18:17	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0011	1.0	4/ 1/05	18:17	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0011	1.0	4/ 1/05	18:17	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0011	1.0	4/ 1/05	18:17	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0011	1.0	4/ 1/05	18:17	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	9.44 g	5.0 ml	3/22/05	10:15	J. Bundy	5035
BTX Prep	8.79 g	10.0 ml	3/22/05	10:15	J. Freeman	5035

Surrogate	% Recovery	Target Range
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## ANALYTICAL REPORT

Laboratory Number: 05-A43388  
Sample ID: B-10-20  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	100.	63. - 127.
VOA Surr, 1,2-DCA <sub>d</sub> 4	93.	72. - 134.
VOA Surr Toluene-d <sub>8</sub>	101.	76. - 122.
VOA Surr, 4-BFB	103.	60. - 138.
VOA Surr, DBFM	91.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43389  
Sample ID: B-10-30  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/22/05  
Time Collected: 10:48  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	93.9	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	4:08	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0016	1.0	4/ 1/05	18:47	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0016	1.0	4/ 1/05	18:47	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0388	1.0	4/ 1/05	18:47	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0016	1.0	4/ 1/05	18:47	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0016	1.0	4/ 1/05	18:47	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0016	1.0	4/ 1/05	18:47	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0016	1.0	4/ 1/05	18:47	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0016	1.0	4/ 1/05	18:47	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0016	1.0	4/ 1/05	18:47	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	6.45 g	5.0 ml	3/22/05	10:48	J. Bundy	5035
BTX Prep	6.97 g	10.0 ml	3/22/05	10:48	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43389  
Sample ID: B-10-30  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	107.	63. - 127.
VOA Surr, 1,2-DCA <sub>d</sub> 4	95.	72. - 134.
VOA Surr Toluene-d <sub>8</sub>	101.	76. - 122.
VOA Surr, 4-BFB	106.	60. - 138.
VOA Surr, DBFM	97.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43390  
Sample ID: B-10-35  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/22/05  
Time Collected: 11:18  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	97.3	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	4:40	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0017	1.0	4/ 1/05	19:37	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0017	1.0	4/ 1/05	19:37	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0417	1.0	4/ 1/05	19:37	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0017	1.0	4/ 1/05	19:37	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0017	1.0	4/ 1/05	19:37	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0017	1.0	4/ 1/05	19:37	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0017	1.0	4/ 1/05	19:37	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0017	1.0	4/ 1/05	19:37	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0017	1.0	4/ 1/05	19:37	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	6.00 g	5.0 ml	3/22/05	11:18	J. Bundy	5035
BTX Prep	6.27 g	10.0 ml	3/22/05	11:18	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43390  
Sample ID: B-10-35  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	109.	63. - 127.
VOA Surr, 1,2-DCAd4	96.	72. - 134.
VOA Surr Toluene-d8	97.	76. - 122.
VOA Surr, 4-BFB	111.	60. - 138.
VOA Surr, DBFM	94.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43391  
Sample ID: B-11-10  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/23/05  
Time Collected: 8:04  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	82.5	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	5:12	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0019	1.0	4/ 1/05	20:03	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0019	1.0	4/ 1/05	20:03	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0472	1.0	4/ 1/05	20:03	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0019	1.0	4/ 1/05	20:03	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0019	1.0	4/ 1/05	20:03	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0019	1.0	4/ 1/05	20:03	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0019	1.0	4/ 1/05	20:03	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0019	1.0	4/ 1/05	20:03	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0019	1.0	4/ 1/05	20:03	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	5.30 g	5.0 ml	3/23/05	8:04	J. Bundy	5035
BTX Prep	5.61 g	10.0 ml	3/23/05	8:04	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43391  
Sample ID: B-11-10  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	91.	63. - 127.
VOA Surr, 1,2-DCAd4	96.	72. - 134.
VOA Surr Toluene-d8	102.	76. - 122.
VOA Surr, 4-BFB	106.	60. - 138.
VOA Surr, DBFM	94.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43392  
Sample ID: B-11-20  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/23/05  
Time Collected: 8:32  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	85.3	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	5:43	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0016	1.0	4/ 1/05	20:33	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0016	1.0	4/ 1/05	20:33	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0390	1.0	4/ 1/05	20:33	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0016	1.0	4/ 1/05	20:33	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0016	1.0	4/ 1/05	20:33	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0016	1.0	4/ 1/05	20:33	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0016	1.0	4/ 1/05	20:33	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0016	1.0	4/ 1/05	20:33	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0016	1.0	4/ 1/05	20:33	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	6.41 g	5.0 ml	3/23/05	8:32	J. Bundy	5035
BTX Prep	6.61 g	10.0 ml	3/23/05	8:32	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43392  
Sample ID: B-11-20  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	91.	63. - 127.
VOA Surr, 1,2-DCAd4	101.	72. - 134.
VOA Surr Toluene-d8	99.	76. - 122.
VOA Surr, 4-BFB	105.	60. - 138.
VOA Surr, DBFM	96.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43393  
Sample ID: B-11-30  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/23/05  
Time Collected: 9:11  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	95.3	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	6:15	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0020	1.0	4/ 1/05	21:00	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0020	1.0	4/ 1/05	21:00	J. Bundy	8260B	8844
**Tertiary butyl alcohol	0.111	mg/kg	0.0491	1.0	4/ 1/05	21:00	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0020	1.0	4/ 1/05	21:00	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0020	1.0	4/ 1/05	21:00	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0020	1.0	4/ 1/05	21:00	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0020	1.0	4/ 1/05	21:00	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0020	1.0	4/ 1/05	21:00	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0020	1.0	4/ 1/05	21:00	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	5.09 g	5.0 ml	3/23/05	9:11	J. Bundy	5035
BTX Prep	5.16 g	10.0 ml	3/23/05	9:11	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43393  
Sample ID: B-11-30  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	63. - 127.
VOA Surr, 1,2-DCAd4	100.	72. - 134.
VOA Surr Toluene-d8	97.	76. - 122.
VOA Surr, 4-BFB	106.	60. - 138.
VOA Surr, DBFM	97.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



ANALYTICAL TESTING CORPORATION

2960 FOSTER CREIGHTON DRIVE • NASHVILLE, TENNESSEE 37204

800-765-0980 • 615-726-3404 FAX

**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43394  
Sample ID: B-11-35  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/23/05  
Time Collected: 10:00  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	104.	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	6:47	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0019	1.0	4/ 1/05	21:30	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0019	1.0	4/ 1/05	21:30	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0463	1.0	4/ 1/05	21:30	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0019	1.0	4/ 1/05	21:30	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0019	1.0	4/ 1/05	21:30	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0019	1.0	4/ 1/05	21:30	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0019	1.0	4/ 1/05	21:30	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0019	1.0	4/ 1/05	21:30	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0019	1.0	4/ 1/05	21:30	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	5.40 g	5.0 ml	3/23/05	10:00	J. Bundy	5035
BTX Prep	5.80 g	10.0 ml	3/23/05	10:00	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43394  
Sample ID: B-11-35  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	63. - 127.
VOA Surr, 1,2-DCAd4	103.	72. - 134.
VOA Surr Toluene-d8	100.	76. - 122.
VOA Surr, 4-BFB	104.	60. - 138.
VOA Surr, DBFM	99.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



ANALYTICAL TESTING CORPORATION

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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43395  
Sample ID: B-12-10  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/23/05  
Time Collected: 11:05  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	86.9	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	7:18	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0015	1.0	4/ 1/05	22:00	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0015	1.0	4/ 1/05	22:00	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0381	1.0	4/ 1/05	22:00	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0015	1.0	4/ 1/05	22:00	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0015	1.0	4/ 1/05	22:00	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0015	1.0	4/ 1/05	22:00	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0015	1.0	4/ 1/05	22:00	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0015	1.0	4/ 1/05	22:00	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0015	1.0	4/ 1/05	22:00	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	6.56 g	5.0 ml	3/23/05	11:05	J. Bundy	5035
BTX Prep	5.67 g	10.0 ml	3/23/05	11:05	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43395  
Sample ID: B-12-10  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	91.	63. - 127.
VOA Surr, 1,2-DCAd4	99.	72. - 134.
VOA Surr Toluene-d8	99.	76. - 122.
VOA Surr, 4-BFB	105.	60. - 138.
VOA Surr, DBFM	94.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43396  
Sample ID: B-12-20  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/23/05  
Time Collected: 11:40  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
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**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	92.5	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	7:50	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0016	1.0	4/ 1/05	22:30	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0016	1.0	4/ 1/05	22:30	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0405	1.0	4/ 1/05	22:30	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0016	1.0	4/ 1/05	22:30	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0016	1.0	4/ 1/05	22:30	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0016	1.0	4/ 1/05	22:30	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0016	1.0	4/ 1/05	22:30	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0016	1.0	4/ 1/05	22:30	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0016	1.0	4/ 1/05	22:30	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	6.17 g	5.0 ml	3/23/05	11:40	J. Bundy	5035
BTX Prep	6.56 g	10.0 ml	3/23/05	11:40	J. Freeman	5035

Surrogate	% Recovery	Target Range
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## ANALYTICAL REPORT

Laboratory Number: 05-A43396  
Sample ID: B-12-20  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	96.	63. - 127.
VOA Surr, 1,2-DCAd4	97.	72. - 134.
VOA Surr Toluene-d8	97.	76. - 122.
VOA Surr, 4-BFB	104.	60. - 138.
VOA Surr, DBFM	95.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

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ANALYTICAL TESTING CORPORATION

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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43397  
Sample ID: B-12-30  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/23/05  
Time Collected: 12:50  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
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**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	90.6	%	1.0	3/29/05	9:45	A. Runnels CLP	2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	8:22	J. Freeman CA-LUFT	2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0016	1.0	4/ 1/05	22:59	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0016	1.0	4/ 1/05	22:59	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0388	1.0	4/ 1/05	22:59	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0016	1.0	4/ 1/05	22:59	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0016	1.0	4/ 1/05	22:59	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0016	1.0	4/ 1/05	22:59	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0016	1.0	4/ 1/05	22:59	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0016	1.0	4/ 1/05	22:59	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0016	1.0	4/ 1/05	22:59	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
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Volatile Organics	6.44 g	5.0 ml	3/23/05	12:50	J. Bundy	5035
BTX Prep	5.35 g	10.0 ml	3/23/05	12:50	J. Freeman	5035

Surrogate	% Recovery	Target Range
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## ANALYTICAL REPORT

Laboratory Number: 05-A43397  
Sample ID: B-12-30  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	111.	63. - 127.
VOA Surr, 1,2-DCA <sub>d</sub> 4	105.	72. - 134.
VOA Surr Toluene-d <sub>8</sub>	99.	76. - 122.
VOA Surr, 4-BFB	105.	60. - 138.
VOA Surr, DBFM	95.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



ANALYTICAL TESTING CORPORATION

2960 FOSTER CREIGHTON DRIVE • NASHVILLE, TENNESSEE 37204

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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43398  
Sample ID: B-13-10  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/23/05  
Time Collected: 13:52  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	93.0	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.56	1.0	3/31/05	17:06	J. Freeman CA-LUFT		8104
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0016	1.0	4/ 1/05	23:29	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0016	1.0	4/ 1/05	23:29	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0407	1.0	4/ 1/05	23:29	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0016	1.0	4/ 1/05	23:29	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0016	1.0	4/ 1/05	23:29	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0016	1.0	4/ 1/05	23:29	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0016	1.0	4/ 1/05	23:29	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0016	1.0	4/ 1/05	23:29	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0016	1.0	4/ 1/05	23:29	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	6.15 g	5.0 ml	3/23/05	13:52	J. Bundy	5035
BTX Prep	6.42 g	10.0 ml	3/23/05	13:52	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43398  
Sample ID: B-13-10  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	84.	63. - 127.
VOA Surr, 1,2-DCA <sub>d</sub> 4	116.	72. - 134.
VOA Surr Toluene-d <sub>8</sub>	96.	76. - 122.
VOA Surr, 4-BFB	106.	60. - 138.
VOA Surr, DBFM	101.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
\*\* = NELAC E87358 Certified Analyte  
All results reported on a wet weight basis.



ANALYTICAL TESTING CORPORATION

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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43399  
Sample ID: B-13-20  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/23/05  
Time Collected: 14:18  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	85.3	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	9:25	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0015	1.0	4/ 1/05	23:59	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0015	1.0	4/ 1/05	23:59	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0385	1.0	4/ 1/05	23:59	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0015	1.0	4/ 1/05	23:59	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0015	1.0	4/ 1/05	23:59	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0015	1.0	4/ 1/05	23:59	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0015	1.0	4/ 1/05	23:59	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0015	1.0	4/ 1/05	23:59	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0015	1.0	4/ 1/05	23:59	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	6.49 g	5.0 ml	3/23/05	14:18	J. Bundy	5035
BTX Prep	6.55 g	10.0 ml	3/23/05	14:18	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43399  
Sample ID: B-13-20  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	63. - 127.
VOA Surr, 1,2-DCA <sub>d</sub> 4	102.	72. - 134.
VOA Surr Toluene-d <sub>8</sub>	96.	76. - 122.
VOA Surr, 4-BFB	107.	60. - 138.
VOA Surr, DBFM	99.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
\*\* = NELAC E87358 Certified Analyte  
All results reported on a wet weight basis.



ANALYTICAL TESTING CORPORATION

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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43400  
Sample ID: B-13-30  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/23/05  
Time Collected: 14:35  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	97.8	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	9:57	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0016	1.0	4/ 2/05	0:29	J. Bundy	8260B	8844
**tert-methyl amyl ether	ND	mg/Kg	0.0016	1.0	4/ 2/05	0:29	J. Bundy	8260B	8844
**Tertiary butyl alcohol	ND	mg/kg	0.0398	1.0	4/ 2/05	0:29	J. Bundy	8260B	8844
**Benzene	ND	mg/kg	0.0016	1.0	4/ 2/05	0:29	J. Bundy	8260B	8844
**Ethylbenzene	ND	mg/kg	0.0016	1.0	4/ 2/05	0:29	J. Bundy	8260B	8844
**Toluene	ND	mg/kg	0.0016	1.0	4/ 2/05	0:29	J. Bundy	8260B	8844
**Xylenes (Total)	ND	mg/kg	0.0016	1.0	4/ 2/05	0:29	J. Bundy	8260B	8844
**Methyl-t-butyl ether	ND	mg/kg	0.0016	1.0	4/ 2/05	0:29	J. Bundy	8260B	8844
**Diisopropyl ether	ND	mg/kg	0.0016	1.0	4/ 2/05	0:29	J. Bundy	8260/SA05-77	8844

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	6.28 g	5.0 ml	3/23/05	14:35	J. Bundy	5035
BTX Prep	6.31 g	10.0 ml	3/23/05	14:35	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43400  
Sample ID: B-13-30  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	94.	63. - 127.
VOA Surr, 1,2-DCAd4	104.	72. - 134.
VOA Surr Toluene-d8	101.	76. - 122.
VOA Surr, 4-BFB	103.	60. - 138.
VOA Surr, DBFM	101.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



ANALYTICAL TESTING CORPORATION

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800-765-0980 • 615-726-3404 FAX

**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43401  
Sample ID: B-13-35  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/23/05  
Time Collected: 15:12  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	92.3	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	10:29	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0018	1.0	4/ 2/05	4:29	J. Bundy	8260B	9330
**tert-methyl amyl ether	ND	mg/Kg	0.0018	1.0	4/ 2/05	4:29	J. Bundy	8260B	9330
**Tertiary butyl alcohol	ND	mg/kg	0.0454	1.0	4/ 2/05	4:29	J. Bundy	8260B	9330
**Benzene	ND	mg/kg	0.0018	1.0	4/ 2/05	4:29	J. Bundy	8260B	9330
**Ethylbenzene	ND	mg/kg	0.0018	1.0	4/ 2/05	4:29	J. Bundy	8260B	9330
**Toluene	ND	mg/kg	0.0018	1.0	4/ 2/05	4:29	J. Bundy	8260B	9330
**Xylenes (Total)	ND	mg/kg	0.0018	1.0	4/ 2/05	4:29	J. Bundy	8260B	9330
**Methyl-t-butyl ether	ND	mg/kg	0.0018	1.0	4/ 2/05	4:29	J. Bundy	8260B	9330
**Diisopropyl ether	ND	mg/kg	0.0018	1.0	4/ 2/05	4:29	J. Bundy	8260/SA05-77	9330

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	5.51 g	5.0 ml	3/23/05	15:12	J. Bundy	5035
BTX Prep	5.58 g	10.0 ml	3/23/05	15:12	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43401  
Sample ID: B-13-35  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	92.	63. - 127.
VOA Surr, 1,2-DCA <sub>d</sub> 4	110.	72. - 134.
VOA Surr Toluene-d <sub>8</sub>	99.	76. - 122.
VOA Surr, 4-BFB	107.	60. - 138.
VOA Surr, DBFM	105.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43402  
Sample ID: B-14-10  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/24/05  
Time Collected: 7:56  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	88.8	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	11:00	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0015	1.0	4/ 2/05	21:10	J. Bundy	8260B	9407
**tert-methyl amyl ether	ND	mg/Kg	0.0015	1.0	4/ 2/05	21:10	J. Bundy	8260B	9407
**Tertiary butyl alcohol	ND	mg/kg	0.0383	1.0	4/ 2/05	21:10	J. Bundy	8260B	9407
**Benzene	ND	mg/kg	0.0015	1.0	4/ 2/05	21:10	J. Bundy	8260B	9407
**Ethylbenzene	ND	mg/kg	0.0015	1.0	4/ 2/05	21:10	J. Bundy	8260B	9407
**Toluene	ND	mg/kg	0.0015	1.0	4/ 2/05	21:10	J. Bundy	8260B	9407
**Xylenes (Total)	ND	mg/kg	0.0015	1.0	4/ 2/05	21:10	J. Bundy	8260B	9407
**Methyl-t-butyl ether	ND	mg/kg	0.0015	1.0	4/ 2/05	21:10	J. Bundy	8260B	9407
**Diisopropyl ether	ND	mg/kg	0.0015	1.0	4/ 2/05	21:10	J. Bundy	8260/SA05-77	9407

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	6.53 g	5.0 ml	3/24/05	7:56	J. Bundy	5035
BTX Prep	5.87 g	10.0 ml	3/24/05	7:56	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43402  
Sample ID: B-14-10  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	95.	63. - 127.
VOA Surr, 1,2-DCA <sub>d</sub> 4	93.	72. - 134.
VOA Surr Toluene-d <sub>8</sub>	101.	76. - 122.
VOA Surr, 4-BFB	102.	60. - 138.
VOA Surr, DBFM	102.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
\*\* = NELAC E87358 Certified Analyte  
All results reported on a wet weight basis.



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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43403  
Sample ID: B-14-20  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/24/05  
Time Collected: 9:27  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	89.1	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	11:32	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0017	1.0	4/ 2/05	7:07	J. Bundy	8260B	9330
**tert-methyl amyl ether	ND	mg/Kg	0.0017	1.0	4/ 2/05	7:07	J. Bundy	8260B	9330
**Tertiary butyl alcohol	ND	mg/kg	0.0433	1.0	4/ 2/05	7:07	J. Bundy	8260B	9330
**Benzene	ND	mg/kg	0.0017	1.0	4/ 2/05	7:07	J. Bundy	8260B	9330
**Ethylbenzene	ND	mg/kg	0.0017	1.0	4/ 2/05	7:07	J. Bundy	8260B	9330
**Toluene	ND	mg/kg	0.0017	1.0	4/ 2/05	7:07	J. Bundy	8260B	9330
**Xylenes (Total)	ND	mg/kg	0.0017	1.0	4/ 2/05	7:07	J. Bundy	8260B	9330
**Methyl-t-butyl ether	ND	mg/kg	0.0017	1.0	4/ 2/05	7:07	J. Bundy	8260B	9330
**Diisopropyl ether	ND	mg/kg	0.0017	1.0	4/ 2/05	7:07	J. Bundy	8260/SA05-77	9330

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	5.78 g	5.0 ml	3/24/05	9:27	J. Bundy	5035
BTX Prep	5.87 g	10.0 ml	3/24/05	9:27	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43403  
Sample ID: B-14-20  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	91.	63. - 127.
VOA Surr, 1,2-DCAd4	101.	72. - 134.
VOA Surr Toluene-d8	103.	76. - 122.
VOA Surr, 4-BFB	111.	60. - 138.
VOA Surr, DBFM	94.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43404  
Sample ID: B-14-30  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/24/05  
Time Collected: 10:00  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	86.8	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	12:04	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0017	1.0	4/ 2/05	21:41	J. Bundy	8260B	9407
**tert-methyl amyl ether	ND	mg/Kg	0.0017	1.0	4/ 2/05	21:41	J. Bundy	8260B	9407
**Tertiary butyl alcohol	ND	mg/kg	0.0428	1.0	4/ 2/05	21:41	J. Bundy	8260B	9407
**Benzene	ND	mg/kg	0.0017	1.0	4/ 2/05	21:41	J. Bundy	8260B	9407
**Ethylbenzene	ND	mg/kg	0.0017	1.0	4/ 2/05	21:41	J. Bundy	8260B	9407
**Toluene	ND	mg/kg	0.0017	1.0	4/ 2/05	21:41	J. Bundy	8260B	9407
**Xylenes (Total)	ND	mg/kg	0.0017	1.0	4/ 2/05	21:41	J. Bundy	8260B	9407
**Methyl-t-butyl ether	ND	mg/kg	0.0017	1.0	4/ 2/05	21:41	J. Bundy	8260B	9407
**Diisopropyl ether	ND	mg/kg	0.0017	1.0	4/ 2/05	21:41	J. Bundy	8260/SA05-77	9407

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	5.84 g	5.0 ml	3/24/05	10:00	J. Bundy	5035
BTX Prep	5.92 g	10.0 ml	3/24/05	10:00	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43404  
Sample ID: B-14-30  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	94.	63. - 127.
VOA Surr, 1,2-DCA <sub>d</sub> 4	93.	72. - 134.
VOA Surr Toluene-d <sub>8</sub>	102.	76. - 122.
VOA Surr, 4-BFB	102.	60. - 138.
VOA Surr, DBFM	102.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
\*\* = NELAC E87358 Certified Analyte  
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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43405  
Sample ID: B-14-35  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/24/05  
Time Collected: 10:20  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	96.0	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	12:35	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0018	1.0	4/ 2/05	22:12	J. Bundy	8260B	9407
**tert-methyl amyl ether	ND	mg/Kg	0.0018	1.0	4/ 2/05	22:12	J. Bundy	8260B	9407
**Tertiary butyl alcohol	ND	mg/kg	0.0441	1.0	4/ 2/05	22:12	J. Bundy	8260B	9407
**Benzene	ND	mg/kg	0.0018	1.0	4/ 2/05	22:12	J. Bundy	8260B	9407
**Ethylbenzene	ND	mg/kg	0.0018	1.0	4/ 2/05	22:12	J. Bundy	8260B	9407
**Toluene	ND	mg/kg	0.0018	1.0	4/ 2/05	22:12	J. Bundy	8260B	9407
**Xylenes (Total)	ND	mg/kg	0.0018	1.0	4/ 2/05	22:12	J. Bundy	8260B	9407
**Methyl-t-butyl ether	ND	mg/kg	0.0018	1.0	4/ 2/05	22:12	J. Bundy	8260B	9407
**Diisopropyl ether	ND	mg/kg	0.0018	1.0	4/ 2/05	22:12	J. Bundy	8260/SA05-77	9407

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	5.67 g	5.0 ml	3/24/05	10:20	J. Bundy	5035
BTX Prep	5.26 g	10.0 ml	3/24/05	10:20	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43405  
Sample ID: B-14-35  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	90.	63. - 127.
VOA Surr, 1,2-DCA <sub>d</sub> 4	96.	72. - 134.
VOA Surr Toluene-d <sub>8</sub>	104.	76. - 122.
VOA Surr, 4-BFB	102.	60. - 138.
VOA Surr, DBFM	101.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
\*\* = NELAC E87358 Certified Analyte  
All results reported on a wet weight basis.



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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43406  
Sample ID: B-15-10  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/24/05  
Time Collected: 12:30  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	84.7	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	13:47	J. Freeman CA-LUFT		2287
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0016	1.0	4/ 2/05	9:52	J. Bundy	8260B	9330
**tert-methyl amyl ether	ND	mg/Kg	0.0016	1.0	4/ 2/05	9:52	J. Bundy	8260B	9330
**Tertiary butyl alcohol	ND	mg/kg	0.0391	1.0	4/ 2/05	9:52	J. Bundy	8260B	9330
**Benzene	ND	mg/kg	0.0016	1.0	4/ 2/05	9:52	J. Bundy	8260B	9330
**Ethylbenzene	ND	mg/kg	0.0016	1.0	4/ 2/05	9:52	J. Bundy	8260B	9330
**Toluene	ND	mg/kg	0.0016	1.0	4/ 2/05	9:52	J. Bundy	8260B	9330
**Xylenes (Total)	ND	mg/kg	0.0016	1.0	4/ 2/05	9:52	J. Bundy	8260B	9330
**Methyl-t-butyl ether	ND	mg/kg	0.0016	1.0	4/ 2/05	9:52	J. Bundy	8260B	9330
**Diisopropyl ether	ND	mg/kg	0.0016	1.0	4/ 2/05	9:52	J. Bundy	8260/SA05-77	9330

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	6.40 g	5.0 ml	3/24/05	12:30	J. Bundy	5035
BTX Prep	6.24 g	10.0 ml	3/24/05	12:30	J. Freeman	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43406  
Sample ID: B-15-10  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	95.	63. - 127.
VOA Surr, 1,2-DCAd4	111.	72. - 134.
VOA Surr Toluene-d8	100.	76. - 122.
VOA Surr, 4-BFB	110.	60. - 138.
VOA Surr, DBFM	96.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43407  
Sample ID: B-15-20  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/24/05  
Time Collected: 13:08  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	92.4	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	21:59	H. Wagner	CA-LUFT	2288
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0017	1.0	4/ 2/05	10:22	J. Bundy	8260B	9330
**tert-methyl amyl ether	ND	mg/Kg	0.0017	1.0	4/ 2/05	10:22	J. Bundy	8260B	9330
**Tertiary butyl alcohol	ND	mg/kg	0.0436	1.0	4/ 2/05	10:22	J. Bundy	8260B	9330
**Benzene	ND	mg/kg	0.0017	1.0	4/ 2/05	10:22	J. Bundy	8260B	9330
**Ethylbenzene	ND	mg/kg	0.0017	1.0	4/ 2/05	10:22	J. Bundy	8260B	9330
**Toluene	ND	mg/kg	0.0017	1.0	4/ 2/05	10:22	J. Bundy	8260B	9330
**Xylenes (Total)	ND	mg/kg	0.0017	1.0	4/ 2/05	10:22	J. Bundy	8260B	9330
**Methyl-t-butyl ether	ND	mg/kg	0.0017	1.0	4/ 2/05	10:22	J. Bundy	8260B	9330
**Diisopropyl ether	ND	mg/kg	0.0017	1.0	4/ 2/05	10:22	J. Bundy	8260/SA05-77	9330

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	5.73 g	5.0 ml	3/24/05	13:08	J. Bundy	5035
BTX Prep	5.01 g	5.0 ml	3/30/05	13:05	H. Wagner	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43407  
Sample ID: B-15-20  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	97.	63. - 127.
VOA Surr, 1,2-DCAd4	114.	72. - 134.
VOA Surr Toluene-d8	101.	76. - 122.
VOA Surr, 4-BFB	113.	60. - 138.
VOA Surr, DBFM	94.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.



ANALYTICAL TESTING CORPORATION

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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43408  
Sample ID: B-15-30  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/24/05  
Time Collected: 13:42  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	97.6	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	22:31	H. Wagner	CA-LUFT	2288
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0017	1.0	4/ 2/05	10:52	J. Bundy	8260B	9330
**tert-methyl amyl ether	ND	mg/Kg	0.0017	1.0	4/ 2/05	10:52	J. Bundy	8260B	9330
**Tertiary butyl alcohol	ND	mg/kg	0.0436	1.0	4/ 2/05	10:52	J. Bundy	8260B	9330
**Benzene	ND	mg/kg	0.0017	1.0	4/ 2/05	10:52	J. Bundy	8260B	9330
**Ethylbenzene	ND	mg/kg	0.0017	1.0	4/ 2/05	10:52	J. Bundy	8260B	9330
**Toluene	ND	mg/kg	0.0017	1.0	4/ 2/05	10:52	J. Bundy	8260B	9330
**Xylenes (Total)	ND	mg/kg	0.0017	1.0	4/ 2/05	10:52	J. Bundy	8260B	9330
**Methyl-t-butyl ether	ND	mg/kg	0.0017	1.0	4/ 2/05	10:52	J. Bundy	8260B	9330
**Diisopropyl ether	ND	mg/kg	0.0017	1.0	4/ 2/05	10:52	J. Bundy	8260/SA05-77	9330

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	5.73 g	5.0 ml	3/24/05	13:42	J. Bundy	5035
BTX Prep	5.00 g	5.0 ml	3/30/05	13:05	H. Wagner	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43408  
Sample ID: B-15-30  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	98.	63. - 127.
VOA Surr, 1,2-DCA <sub>d</sub> 4	108.	72. - 134.
VOA Surr Toluene-d <sub>8</sub>	104.	76. - 122.
VOA Surr, 4-BFB	111.	60. - 138.
VOA Surr, DBFM	90.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.  
B = Analyte was detected in the method blank.  
J = Estimated Value below Report Limit.  
E = Estimated Value above the calibration limit of the instrument.  
# = Recovery outside Laboratory historical or method prescribed limits.  
\*\* = NELAC E87358 Certified Analyte  
All results reported on a wet weight basis.



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**ANALYTICAL REPORT**

HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001

Lab Number: 05-A43409  
Sample ID: B-15-35  
Sample Type: Soil  
Site ID: 18-MJA

Project:  
Project Name: EXXONMOBIL 18-MJA  
Sampler: JESSICA LAW

Date Collected: 3/24/05  
Time Collected: 14:50  
Date Received: 3/26/05  
Time Received: 8:00

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch

**\*GENERAL CHEMISTRY PARAMETERS\***

% Dry Weight	98.4	%		1.0	3/29/05	9:45	A. Runnels CLP		2303
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**\*ORGANIC PARAMETERS\***

**TPH (GRO C4-C12)	ND	mg/kg	1.00	1.0	3/30/05	23:02	H. Wagner	CA-LUFT	2288
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**\*VOLATILE ORGANICS\***

**Ethyl-t-butylether	ND	mg/kg	0.0019	1.0	4/ 2/05	11:22	J. Bundy	8260B	9330
**tert-methyl amyl ether	ND	mg/Kg	0.0019	1.0	4/ 2/05	11:22	J. Bundy	8260B	9330
**Tertiary butyl alcohol	ND	mg/kg	0.0481	1.0	4/ 2/05	11:22	J. Bundy	8260B	9330
**Benzene	ND	mg/kg	0.0019	1.0	4/ 2/05	11:22	J. Bundy	8260B	9330
**Ethylbenzene	ND	mg/kg	0.0019	1.0	4/ 2/05	11:22	J. Bundy	8260B	9330
**Toluene	ND	mg/kg	0.0019	1.0	4/ 2/05	11:22	J. Bundy	8260B	9330
**Xylenes (Total)	ND	mg/kg	0.0019	1.0	4/ 2/05	11:22	J. Bundy	8260B	9330
**Methyl-t-butyl ether	ND	mg/kg	0.0019	1.0	4/ 2/05	11:22	J. Bundy	8260B	9330
**Diisopropyl ether	ND	mg/kg	0.0019	1.0	4/ 2/05	11:22	J. Bundy	8260/SA05-77	9330

**-----  
Sample Extraction Data**

Parameter	Extracted	Extract Vol	Date	Time	Analyst	Method
Volatile Organics	5.20 g	5.0 ml	3/24/05	14:50	J. Bundy	5035
BTX Prep	4.95 g	5.0 ml	3/30/05	13:05	H. Wagner	5035

Surrogate	% Recovery	Target Range

## ANALYTICAL REPORT

Laboratory Number: 05-A43409  
Sample ID: B-15-35  
Project:  
Page 2

Surrogate	% Recovery	Target Range
UST surr-Trifluorotoluene	97.	63. - 127.
VOA Surr, 1,2-DCAd4	108.	72. - 134.
VOA Surr Toluene-d8	99.	76. - 122.
VOA Surr, 4-BFB	108.	60. - 138.
VOA Surr, DBFM	91.	75. - 137.

### LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

\*\* = NELAC E87358 Certified Analyte

All results reported on a wet weight basis.

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## PROJECT QUALITY CONTROL DATA

**Project Number:**

**Project Name:** EXXONMOBIL 18-MJA

**Page:** 1

**Laboratory Receipt Date:** 3/26/05

### Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
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#### \*\*UST ANALYSIS\*\*

TPH (GRO C4-C12)	mg/kg	< 1.00	6.95	10.0	70	52. - 150.	2288	43409
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#### \*\*VOA PARAMETERS\*\*

Benzene	mg/kg	< 0.0008	0.0538	0.0500	108	53 - 136	8844	blank
Benzene	mg/kg	< 0.0008	0.0485	0.0500	97	53 - 136	9330	blank
Benzene	mg/kg	< 0.0008	0.0341	0.0500	68	53 - 136	9407	blank
Toluene	mg/kg	< 0.0005	0.0500	0.0500	100	43 - 139	8844	blank
Toluene	mg/kg	< 0.0005	0.0504	0.0500	101	43 - 139	9330	blank
Toluene	mg/kg	< 0.0005	0.0341	0.0500	68	43 - 139	9407	blank
VOA Surr, 1,2-DCAd4	% Rec				98	72 - 134	8844	
VOA Surr, 1,2-DCAd4	% Rec				100	72 - 134	9330	
VOA Surr, 1,2-DCAd4	% Rec				90	72 - 134	9407	
VOA Surr Toluene-d8	% Rec				98	76 - 122	8844	
VOA Surr Toluene-d8	% Rec				105	76 - 122	9330	
VOA Surr Toluene-d8	% Rec				103	76 - 122	9407	
VOA Surr, 4-BFB	% Rec				104	60 - 138	8844	
VOA Surr, 4-BFB	% Rec				111	60 - 138	9330	
VOA Surr, 4-BFB	% Rec				100	60 - 138	9407	
VOA Surr, DBFM	% Rec				98	75 - 137	8844	
VOA Surr, DBFM	% Rec				94	75 - 137	9330	
VOA Surr, DBFM	% Rec				99	75 - 137	9407	

### Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
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#### \*\*UST PARAMETERS\*\*

TPH (GRO C4-C12)	mg/kg	6.95	7.51	7.75	39.	2288
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**PROJECT QUALITY CONTROL DATA**

**Project Number:**

**Project Name:** EXXONMOBIL 18-MJA

**Page:** 2

**Laboratory Receipt Date:** 3/26/05

**\*\*VOA PARAMETERS\*\***

Benzene	mg/kg	0.0538	0.0540	0.37	34.	8844
Benzene	mg/kg	0.0485	0.0489	0.82	34.	9330
Benzene	mg/kg	0.0341	0.0360	5.42	34.	9407
Toluene	mg/kg	0.0500	0.0511	2.18	39.	8844
Toluene	mg/kg	0.0504	0.0496	1.60	39.	9330
Toluene	mg/kg	0.0341	0.0364	6.52	39.	9407
VOA Surr, 1,2-DCAd4	% Rec	97.				8844
VOA Surr, 1,2-DCAd4	% Rec	97.				9330
VOA Surr, 1,2-DCAd4	% Rec	89.				9407
VOA Surr Toluene-d8	% Rec	98.				8844
VOA Surr Toluene-d8	% Rec	108.				9330
VOA Surr Toluene-d8	% Rec	102.				9407
VOA Surr, 4-BFB	% Rec	105.				8844
VOA Surr, 4-BFB	% Rec	112.				9330
VOA Surr, 4-BFB	% Rec	100.				9407
VOA Surr, DBFM	% Rec	99.				8844
VOA Surr, DBFM	% Rec	93.				9330
VOA Surr, DBFM	% Rec	100.				9407

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
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**\*\*UST PARAMETERS\*\***

TPH (GRO C4-C12)	mg/kg	10.0	10.2	102	74 - 127	2287
TPH (GRO C4-C12)	mg/kg	10.0	9.37	94	74 - 127	2288
TPH (GRO C4-C12)	mg/kg	10.0	10.8	108	74 - 127	8104

**\*\*VOA PARAMETERS\*\***

Ethyl-t-butylether	mg/kg	0.0500	0.0565	113	67 - 137	8844
Ethyl-t-butylether	mg/kg	0.0500	0.0403	81	67 - 137	9330
Ethyl-t-butylether	mg/kg	0.0500	0.0537	107	67 - 137	9407
tert-methyl amyl ether	mg/Kg	0.0500	0.0576	115	64 - 142	8844
tert-methyl amyl ether	mg/Kg	0.0500	0.0355	71	64 - 142	9330
tert-methyl amyl ether	mg/Kg	0.0500	0.0637	127	64 - 142	9407
Tertiary butyl alcohol	mg/kg	0.500	0.604	121	36 - 159	8844
Tertiary butyl alcohol	mg/kg	0.500	0.328	66	36 - 159	9330
Tertiary butyl alcohol	mg/kg	0.500	0.477	95	36 - 159	9407
Benzene	mg/kg	0.0500	0.0499	100	76 - 124	8844
Benzene	mg/kg	0.0500	0.0460	92	76 - 124	9330

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## PROJECT QUALITY CONTROL DATA

**Project Number:**

**Project Name:** EXXONMOBIL 18-MJA

**Page:** 3

**Laboratory Receipt Date:** 3/26/05

### Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Benzene	mg/kg	0.0500	0.0396	79	76 - 124	9407
Ethylbenzene	mg/kg	0.0500	0.0524	105	70 - 128	8844
Ethylbenzene	mg/kg	0.0500	0.0448	90	70 - 128	9330
Ethylbenzene	mg/kg	0.0500	0.0420	84	70 - 128	9407
Toluene	mg/kg	0.0500	0.0521	104	72 - 125	8844
Toluene	mg/kg	0.0500	0.0438	88	72 - 125	9330
Toluene	mg/kg	0.0500	0.0413	83	72 - 125	9407
Xylenes (Total)	mg/kg	0.150	0.157	105	71 - 129	8844
Xylenes (Total)	mg/kg	0.150	0.130	87	71 - 129	9330
Xylenes (Total)	mg/kg	0.150	0.127	85	71 - 129	9407
Methyl-t-butyl ether	mg/kg	0.0500	0.0525	105	67 - 138	8844
Methyl-t-butyl ether	mg/kg	0.0500	0.0366	73	67 - 138	9330
Methyl-t-butyl ether	mg/kg	0.0500	0.0471	94	67 - 138	9407
Diisopropyl ether	mg/kg	0.0500	0.0566	113	70 - 131	8844
Diisopropyl ether	mg/kg	0.0500	0.0476	95	70 - 131	9330
Diisopropyl ether	mg/kg	0.0500	0.0381	76	70 - 131	9407
VOA Surr, 1,2-DCAd4	% Rec			85	72 - 134	8844
VOA Surr, 1,2-DCAd4	% Rec			104	72 - 134	9330
VOA Surr, 1,2-DCAd4	% Rec			93	72 - 134	9407
VOA Surr Toluene-d8	% Rec			105	76 - 122	8844
VOA Surr Toluene-d8	% Rec			104	76 - 122	9330
VOA Surr Toluene-d8	% Rec			102	76 - 122	9407
VOA Surr, 4-BFB	% Rec			102	60 - 138	8844
VOA Surr, 4-BFB	% Rec			104	60 - 138	9330
VOA Surr, 4-BFB	% Rec			100	60 - 138	9407
VOA Surr, DBFM	% Rec			94	75 - 137	8844
VOA Surr, DBFM	% Rec			95	75 - 137	9330
VOA Surr, DBFM	% Rec			103	75 - 137	9407

### Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd

**PROJECT QUALITY CONTROL DATA**

**Project Number:**

**Project Name:** EXXONMOBIL 18-MJA

**Page:** 4

**Laboratory Receipt Date:** 3/26/05

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
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**\*\*UST PARAMETERS\*\***

TPH (GRO C4-C12)	< 0.31	mg/kg	2287	3/30/05	2:33
TPH (GRO C4-C12)	< 0.31	mg/kg	2288	3/30/05	21:28
TPH (GRO C4-C12)	< 0.31	mg/kg	8104	3/31/05	2:33
UST surr-Trifluorotoluene	91.	% Recovery	2287	3/30/05	2:33
UST surr-Trifluorotoluene	95.	% Recovery	2288	3/30/05	21:28
UST surr-Trifluorotoluene	78.	% Recovery	8104	3/31/05	2:33

**\*\*VOA PARAMETERS\*\***

Ethyl-t-butylether	< 0.0007	mg/kg	8844	4/ 1/05	15:19
Ethyl-t-butylether	< 0.0007	mg/kg	9330	4/ 2/05	3:59
Ethyl-t-butylether	< 0.0007	mg/kg	9407	4/ 2/05	20:40
tert-methyl amyl ether	< 0.0008	mg/Kg	8844	4/ 1/05	15:19
tert-methyl amyl ether	< 0.0008	mg/Kg	9330	4/ 2/05	3:59
tert-methyl amyl ether	< 0.0008	mg/Kg	9407	4/ 2/05	20:40
Tertiary butyl alcohol	< 0.0114	mg/kg	8844	4/ 1/05	15:19
Tertiary butyl alcohol	< 0.0114	mg/kg	9330	4/ 2/05	3:59
Tertiary butyl alcohol	< 0.0114	mg/kg	9407	4/ 2/05	20:40
Benzene	< 0.0008	mg/kg	8844	4/ 1/05	15:19
Benzene	< 0.0008	mg/kg	9330	4/ 2/05	3:59
Benzene	< 0.0008	mg/kg	9407	4/ 2/05	20:40
Ethylbenzene	< 0.0005	mg/kg	8844	4/ 1/05	15:19
Ethylbenzene	< 0.0005	mg/kg	9330	4/ 2/05	3:59
Ethylbenzene	< 0.0005	mg/kg	9407	4/ 2/05	20:40
Toluene	< 0.0005	mg/kg	8844	4/ 1/05	15:19
Toluene	< 0.0005	mg/kg	9330	4/ 2/05	3:59
Toluene	< 0.0005	mg/kg	9407	4/ 2/05	20:40
Xylenes (Total)	< 0.0013	mg/kg	8844	4/ 1/05	15:19
Xylenes (Total)	< 0.0013	mg/kg	9330	4/ 2/05	3:59
Xylenes (Total)	< 0.0013	mg/kg	9407	4/ 2/05	20:40
Methyl-t-butyl ether	< 0.0009	mg/kg	8844	4/ 1/05	15:19
Methyl-t-butyl ether	< 0.0009	mg/kg	9330	4/ 2/05	3:59
Methyl-t-butyl ether	< 0.0009	mg/kg	9407	4/ 2/05	20:40
Diisopropyl ether	< 0.0008	mg/kg	8844	4/ 1/05	15:19
Diisopropyl ether	< 0.0008	mg/kg	9330	4/ 2/05	3:59
Diisopropyl ether	< 0.0008	mg/kg	9407	4/ 2/05	20:40

**PROJECT QUALITY CONTROL DATA****Project Number:****Project Name: EXXONMOBIL 18-MJA****Page: 5****Laboratory Receipt Date: 3/26/05**

VOA Surr, 1,2-DCAd4	91.	% Rec	8844	4/ 1/05	15:19
VOA Surr, 1,2-DCAd4	104.	% Rec	9330	4/ 2/05	3:59
VOA Surr, 1,2-DCAd4	89.	% Rec	9407	4/ 2/05	20:40
VOA Surr Toluene-d8	97.	% Rec	8844	4/ 1/05	15:19
VOA Surr Toluene-d8	101.	% Rec	9330	4/ 2/05	3:59
VOA Surr Toluene-d8	105.	% Rec	9407	4/ 2/05	20:40
VOA Surr, 4-BFB	103.	% Rec	8844	4/ 1/05	15:19
VOA Surr, 4-BFB	103.	% Rec	9330	4/ 2/05	3:59
VOA Surr, 4-BFB	101.	% Rec	9407	4/ 2/05	20:40
VOA Surr, DBFM	94.	% Rec	8844	4/ 1/05	15:19
VOA Surr, DBFM	100.	% Rec	9330	4/ 2/05	3:59
VOA Surr, DBFM	98.	% Rec	9407	4/ 2/05	20:40

# = Value outside Laboratory historical or method prescribed QC limits.

4 / 4/05

**HOLGUIN, FAHAN & ASSOCIATES 10235  
JAMES ANDERSON  
143 SOUTH FIGUEROA STREET  
VENTURA, CA 93001**

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: EXXONMOBIL 18-MJA

Project Number: .

Laboratory Project Number: 410795.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

Sample Identification	Lab Number	Page 1 Collection Date
B-10-10	05-A43387	3/22/05
B-10-20	05-A43388	3/22/05
B-10-30	05-A43389	3/22/05
B-10-35	05-A43390	3/22/05
B-11-10	05-A43391	3/23/05
B-11-20	05-A43392	3/23/05
B-11-30	05-A43393	3/23/05
B-11-35	05-A43394	3/23/05
B-12-10	05-A43395	3/23/05
B-12-20	05-A43396	3/23/05
B-12-30	05-A43397	3/23/05
B-13-10	05-A43398	3/23/05
B-13-20	05-A43399	3/23/05
B-13-30	05-A43400	3/23/05
B-13-35	05-A43401	3/23/05
B-14-10	05-A43402	3/24/05
B-14-20	05-A43403	3/24/05
B-14-30	05-A43404	3/24/05
B-14-35	05-A43405	3/24/05
B-15-10	05-A43406	3/24/05
B-15-20	05-A43407	3/24/05
B-15-30	05-A43408	3/24/05
B-15-35	05-A43409	3/24/05

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Sample Identification

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Lab Number

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Page 2

Collection Date

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These results relate only to the items tested.

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Report Approved By:

Pamela A. Langford

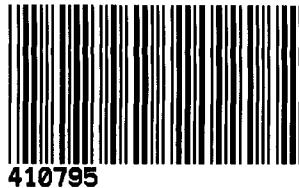
Report Date: 4/ 4/05

Johnny A. Mitchell, Laboratory Director  
Michael H. Dunn, M.S., Technical Director  
Pamela A. Langford, Senior Project Manager  
Eric S. Smith, QA/QC Director  
Sandra McMillin, Technical Services

Gail A. Lage, Senior Project Manager  
Glenn L. Norton, Technical Services  
Kelly S. Comstock, Technical Services  
Roxanne L. Connor, Senior Project Manager  
Mark Hollingsworth, Director of Project

Laboratory Certification Number: 01168CA

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If you have received this material in error, please notify us immediately at 615-726-0177.



**COOLER RECEIPT FORM**

BC#

410795

Client Name : HFA

Cooler Received/Opened On: 3/26/05 Accessioned By: Shawn Gracey

Log-in Personnel Signature SHAWN GRACEY

1. Temperature of Cooler when triaged: 0.4 Degrees Celsius
2. Were custody seals on outside of cooler? .....  YES... NO...NA  
a. If yes, how many, and where: 1 Front
3. Were custody seals on containers? .....  NO... YES...NA
4. Were the seals intact, signed, and dated correctly? .....  YES... NO...NA
5. Were custody papers inside cooler? .....  YES... NO...NA
6. Were custody papers properly filled out (ink, signed, etc)? .....  YES... NO...NA
7. Did you sign the custody papers in the appropriate place? .....  YES... NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process:  Ice  Ice-pack  Ice (direct contact)  Dry ice  Other  None
10. Did all containers arrive in good condition (unbroken)? .....  YES... NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? .....  YES... NO...NA
12. Did all container labels and tags agree with custody papers? .....  YES... NO...NA
13. Were correct containers used for the analysis requested? .....  YES... NO...NA
14. a. Were VOA vials received? .....  YES... NO...NA  
b. Was there any observable head space present in any VOA vial? .....  NO... YES... NA
15. Was sufficient amount of sample sent in each container? .....  YES... NO...NA
16. Were correct preservatives used? .....  YES... NO...NA

If not, record standard ID of preservative used here \_\_\_\_\_

17. Was residual chlorine present? .....  NO... YES... NA

18. Indicate the Airbill Tracking Number (last 4 digits for FedEx only) and Name of Courier below:

5681, 5670

Fed-Ex

UPS

Velocity

DHL

Route

Off-street

Misc.

19. If a Non-Conformance exists, see attached or comments below:

*- B-15-20 had one vial broken in shipment.*

# TestAmerica

# CHAIN OF CUSTODY RECORD

Nashville Division  
2960 Foster Creighton  
Nashville, TN 37204

Consultant Name: Holquin, Fahan & Associates, Inc.

Address/City/State/Zip: 143 South Figueroa Street

# 410795

Phone: 615-726-0177  
Toll Free: 800-765-0980  
Fax: 615-726-3404

Consultant Project Mgr: Greg Barton

Consultant Telephone Number: 805-585-6371

Fax No.: 805-652-0793

Account #: 10235

P.O. #: 450 562 2222

Global ID: Not Available

Sampler ID: HFA Ventura

Facility ID #: 18-MJA

Sampler Name: (Print) Jessica Law

Sampler Signature: 

Site Address: 1000 W. Valley Boulevard

City, State Zip: Alhambra, CA

Project Name		Preservative	Matrix	Analyze For:																								
Date Sampled	Time Sampled			No. of Containers Shipped	Grab	Composite	Field Filtered	Ungenerated	HNO <sub>3</sub> (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H <sub>2</sub> SO <sub>4</sub> , Plastic (Yellow Label)	H <sub>2</sub> SO <sub>4</sub> , Glass (Yellow Label)	Methanol (White Label)	Sodium Bisulfite (White Label)	Groundwater	Drinking Water	Soil	TPHg 8015M	BTEX/MTBE 8021B	TAME/TBA 8260B	Ethanol 8260B	Total Lead 6010B	Metals 6010B	VOCs 8260B	STD TAT	RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)
X B-10-10	4/22/05	9:45	7 X	1																								
X B-10-20	4/8	3/22/05	10:5	7 X	1																							
X B-10-30	4/9	3/22/05	10:48	7 X	1																							
X B-10-35	4/10	3/22/05	11:18	7 X	1																							
X B-11-10	4/11	3/23/05	8:04	7 X	1																							
X B-11-20	4/12	3/23/05	8:32	7 X	1																							
X B-11-30	4/13	3/23/05	9:11	7 X	1																							
X B-11-35	4/11	3/23/05	10:00	7 X	1																							
X B-12-10	4/15	3/23/05	11:05	7 X	1																							
X B-12-20	4/17	3/23/05	11:40	7 X	1																							

Special Instructions: FAX sample receipt confirmation to Ventura (805) 652-0793. EDIF required, e-mail to Kevin\_Hendricks@hfa.com.  
E-mail PDF of analytical report to James\_Anderson@hfa.com

Samples stored in HFA refrigerator overnight prior to shipment to lab.

Samples delivered to FedEx in sealed cooler for shipment.

Laboratory Comments:

Temperature Upon Receipt:

Sample Containers Intact? Y

VOCS Free of Headspace? N

Received by: 

Date: 3/25/05

Time: 1:300

Received by: 

Date: 3/29/05

Time: 8:00

Received by: 

Date: 3/26/05

Time: 0:00

# TestAmerica

Nashville Division  
2960 Foster Creighton  
Nashville, TN 37204

## CHAIN OF CUSTODY RECORD

Phone: 615-726-0177  
Toll Free: 800-765-0980  
Fax: 615-726-3404

Consultant Name: Holquin, Fahan & Associates, Inc.

Address/City/State/Zip: 143 South Figueroa Street

ExxonMobil Project Mgr: Greg Barton

Consultant Telephone Number: 805-585-6371

Fax No.: 805-652-0793

Global ID: Not Available

Sampler ID: HFA Ventura

Sampler Name: (Print) Jessica Law

Sampler Signature: J. Law

Sampler Signature: J. Law

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Composite	Field Filtered	Uppreserved	HCl (Blue Label)	NaOH (Orange Label)	H <sub>2</sub> SO <sub>4</sub> , Plastic (Yellow Label)	H <sub>2</sub> SO <sub>4</sub> , Glass (Yellow Label)	Methanol (White Label)	Sodium Bisulfite (White Label)	Groundwater	Wastewater	Drinking Water	Soil	Other (Specify): Lab Source	TPHg 8015M	BTEX/MTBE 8021B	TAME/TBA 8260B	TPH As OI 8015M	Total Lead 6010B	Metals 6010B	VOCs 8260B	Analyze For:	RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	STD TAT	Fax Results	
X B-12-30 43367	3/23/05	1250	7	X				1				2	4		X	X														
X B-13-10 398	3/23/05	1352	7	X				1				2	4		X	X														
X B-13-20 319	3/23/05	1418	7	X				1				2	4		X	X														
X B-13-30 600	3/23/05	1435	7	X				1				2	4		X	X														
X B-13-35 901	3/23/05	1512	7	X				1				2	4		X	X														
X B-14-10 402	3/24/05	754	7	X				1				2	4		X	X														
X B-14-20 403	3/24/05	927	7	X				1				2	4		X	X														
X B-14-30 404	3/24/05	1000	7	X				1				2	4		X	X														
X B-14-35 405	3/24/05	1020	7	X				1				2	4		X	X														

**Special Instructions:** FAX Sample receipt confirmation to Ventura (805) 652-0793. EDF required, e-mail to Kevin\_Hendricks@hfa.com.  
E-mail PDF of analytical report to James\_Anderson@hfa.com

Samples stored in HFA refrigerator overnight prior to shipment to lab.

Samples delivered to FedEx in sealed cooler for shipment.

Received by:

*John* Date 3/25/05 Time 1300

*Kevin B. Reiter* Date 3/25/05 Time 1800

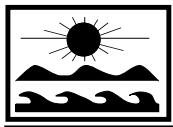
Relinquished by:

*John* Date 3/25/05 Time 1300

Page 2 of 3

Temperature Upon Receipt: Y N  
Sample Containers Intact? Y N  
VOCS Free of Headspace? Y N





**HOLGUIN,  
FAHAN &  
ASSOCIATES, INC.**

ENVIRONMENTAL MANAGEMENT CONSULTANTS

**APPENDIX 5.**

**WASTE MANIFEST...PENDING**